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BOEING VERTOL CO PHILADELPHIA PA

F/G 1/3

CH-46 COMPOSITE ROTOR BLADE FLIGHT STRESS SURVEY DATA, VOLUME X--ETC(U)

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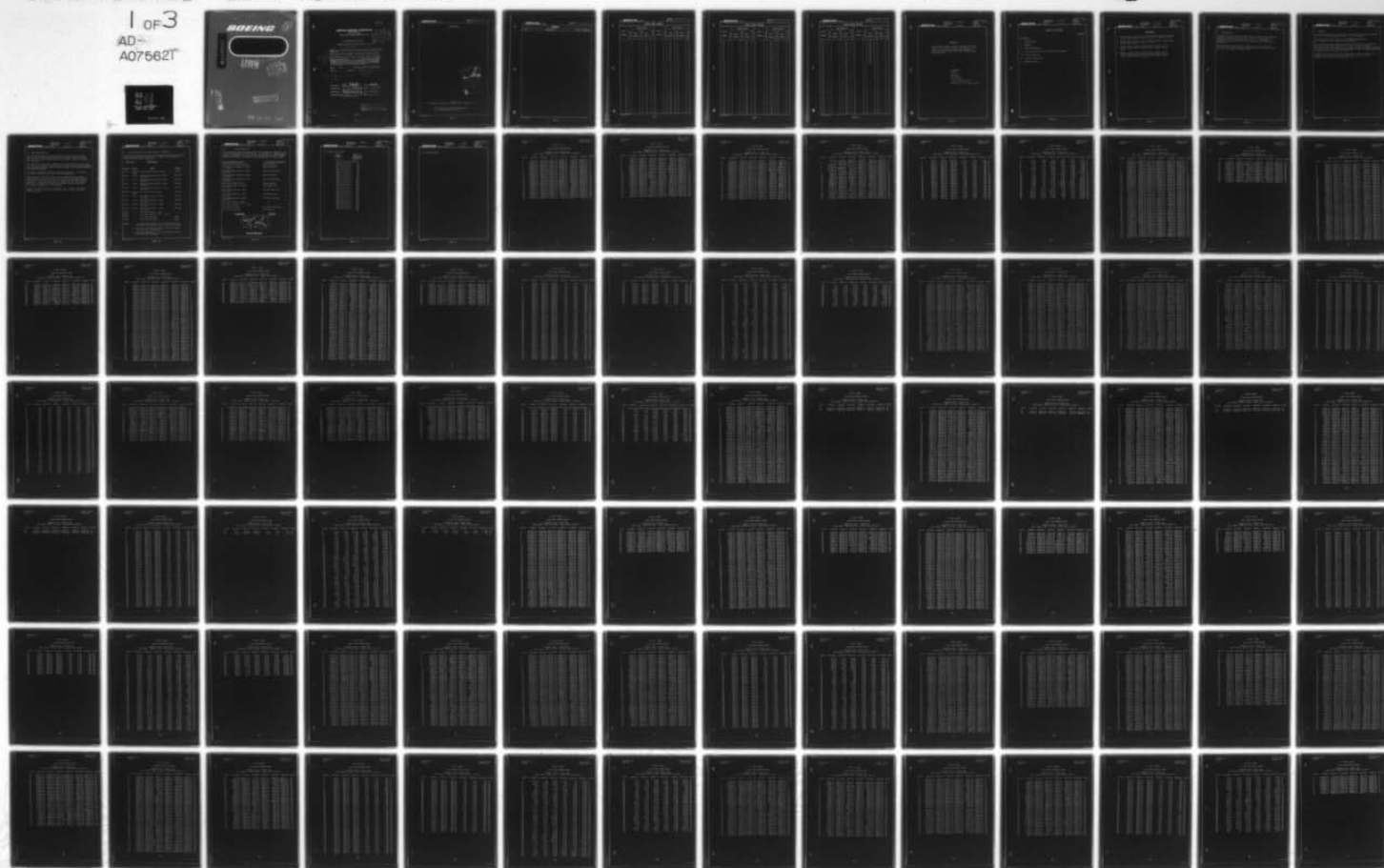
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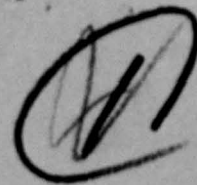
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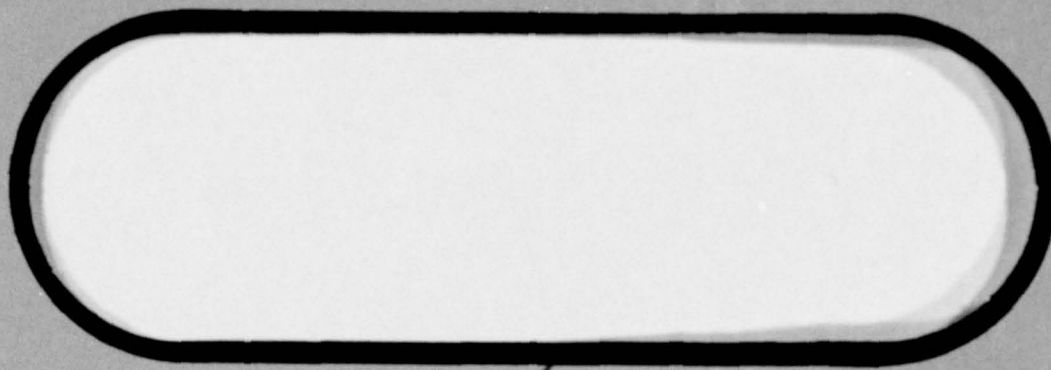
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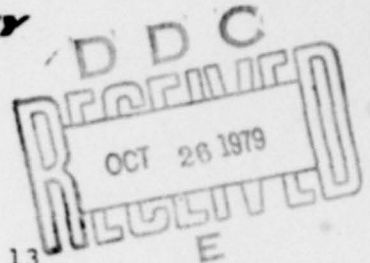
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**BOEING VERTOL COMPANY**

A DIVISION OF THE BOEING COMPANY

P.O. BOX 16858

PHILADELPHIA, PENNSYLVANIA 19142



14 CODE IDENT. NO. 77272

6 NUMBER D210-11168-3-Volume 12 of 13

VOL-12

TITLE CH-46 COMPOSITE ROTOR BLADE FLIGHT STRESS SURVEY

DATA, TABULATED FORWARD AND AFT ROTOR SHAFT LOADS,

Volume XII. LOAD FACTOR, PITCH AND ROLL ATTITUDE AND ROTOR RPM

ORIGINAL RELEASE DATE . FOR THE RELEASE DATE OF  
SUBSEQUENT REVISIONS, SEE THE REVISION SHEET. FOR LIMITATIONS  
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MODEL CH-46 CONTRACT N00019-75-C-0396

ISSUE NO. ISSUED TO: 15

10 R./Aiello  
J./Bendo

11 1978

12 251

PREPARED BY

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DATE 2-27-79

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REVISIONS			
LTR	DESCRIPTION	DATE	APPROVAL



ACTIVE SHEET RECORD											
SHEET NUMBER	REV LTR	ADDED SHEETS				SHEET NUMBER	REV LTR	ADDED SHEETS			
		SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR			SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR
1				31				61			
2				32				62			
3				33				63			
4				34				64			
5				35				65			
6				36				66			
7				37				67			
8				38				68			
9				39				69			
10				40				70			
11				41				71			
12				42				72			
13				43				73			
14				44				74			
15				45				75			
16				46				76			
17				47				77			
18				48				78			
19				49				79			
20				50				80			
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29				59				89			
30				60				90			



ACTIVE SHEET RECORD											
SHEET NUMBER	REV LTR	ADDED SHEETS				SHEET NUMBER	REV LTR	ADDED SHEETS			
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91				121				151			
92				122				152			
93				123				153			
94				124				154			
95				125				155			
96				126				156			
97				127				157			
98				128				158			
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109				139				169			
110				140				170			
111				141				171			
112				142				172			
113				143				173			
114				144				174			
115				145				175			
116				146				176			
117				147				177			
118				148				178			
119				149				179			
120				150				180			

FORM 48263 (7/67)

**ACTIVE SHEET RECORD**

SHEET NUMBER	REV LTR	ADDED SHEETS				SHEET NUMBER	REV LTR	ADDED SHEETS			
		SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR			SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR
181				211				241			
182				212				242			
183				213				243			
184				214				244			
185				215				245			
186				216				246			
187				217				247			
188				218				248			
189				219				249			
190				220				250			
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197				227							
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206				236							
207				237							
208				238							
209				239							
210				240							

FORM 46283 (7/87)

THE **BOEING** COMPANY

PREPARED BY: J. Bendo

CHECKED BY:

DATE: 8/28/78

D210-11168-3  
NUMBER Vol. 12  
REV LTR  
MODEL NO.

ABSTRACT

This report volume presents tabulated forward and aft rotor shaft loads, load factor, pitch and roll attitude and rotor rpm measured during the CH-46 Composite Rotor Blade Flight Stress Survey.

KEYWORDS

CH-46E

Composite

Rotor Blade

Flight Stress Survey

Alternating and Steady Loads



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THE **BOEING** COMPANY

PREPARED BY: J. Bendo  
CHECKED BY:  
DATE: 8/29/78

D210-11168-3  
NUMBER Vol. 12  
REV LTR  
MODEL NO.

REFERENCES

1. Vertol Report D210-11168-1 "CH-46 Composite Rotor Blade Flight Test Qualification Test Plan" March 30, 1977
2. Vertol Report D210-11168-2 "CH-46 Composite Rotor Blade Flight Test Report" May 15, 1978
3. Boeing Vertol Report D210-11168-3 Volume 1 of 13, CH-46 Composite Rotor Blade Flight Stress Survey Data
4. Boeing Vertol Report D210-11168-3 Volume 8 of 13, CH-46 Composite Rotor Blade Flight Stress Survey Data, Plotted Forward and Aft Rotor Shaft Loads

THE **BOEING** COMPANY

PREPARED BY: J. Bendo

CHECKED BY:

DATE: 8/29/78

D210-11168-3

NUMBER Vol. 12

REV LTR

MODEL NO.

## 1. INTRODUCTION

A flight stress survey was conducted on a CH-46 helicopter with A02R1702 composite rotor blades. The test was conducted in accordance with Paragraphs 4.3.2 and 4.7 of Reference 1. General test description and pilot comments are included in Reference 2.

The test were conducted at the Boeing Vertol Flight Test Facility at Ridley Township, Pennsylvania, during the period of June 1977 through November 1977.

THE **BOEING** COMPANY

PREPARED BY: J. Bendo  
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DATE: 8/29/78

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MODEL NO.

## 2. SUMMARY

A flight stress survey and structural demonstration was conducted on the #1 CH-46E Helicopter, BuNo. 153372 (S/N 2268).

The components under test were the A02R1702 composite rotor blades and the A02R1710 blade socket.

This volume contains measured steady and alternating forward and aft rotor shaft loads tabulated by flight and event number. Maximum and minimum forward and aft shaft torque values are included in this grouping. The steady and alternating data is plotted versus true airspeed and can be found in Volume 8.

In addition, this volume contains measured (steady, maximum and minimum) load factor, pitch/roll attitude, and rotor rpm tabulated by flight and event number.



### 3. DATA PRESENTATION

This volume contains measured steady and alternating forward and aft rotor shaft loads tabulated by flight and event number. The maximum and minimum forward and aft shaft torque values are also presented.

The tabulated load levels represent the maximum alternating load cycle occurring during the particular flight condition. The steady and alternating data is shown plotted versus true airspeed and can be found in Volume 8.

In addition measured (steady, maximum and minimum) load factor pitch/roll attitude, and rotor rpm are tabulated.

Identification and data codes of gage measurements included in this volume and also the order with which the tabulated data is presented can be found in the gage identification table on the next page. This tabulated order is adhered to for all flights. Section 3.3 presents a flight/page number indexing chart for all flights tabulated in this volume.

Detailed flight condition parameters and a complete tabulated summary of maneuvers for each flight can be found in Volume 1 of this report.



## 3.1 Gage Identification and Tabulation Sequence

Strain gage identification and instrumentation code information for data presented in this volume, as well as the order of tabulated data, are as follows:

<u>DATA CODE</u>		<u>MEASUREMENT</u>	
<u>ACTIVE</u>	<u>SPARE</u>	<u>NAME</u>	<u>UNITS</u>
41200	41210/ 61200	Forward Rotor Shaft Torque	(IN-LB)
41160	61160	Forward Shaft Bending, Upper (0°-180°)	(IN-LB)
41170	61170	Forward Shaft Bending, Upper (90°-270°)	(IN-LB)
41870	61870	Forward Shaft Bending, Lower (0°-180°)	(IN-LB)
41880	61880	Forward Shaft Bending, Lower (90°-270°)	(IN-LB)
49200	69200/ 69210	Aft Rotor Shaft Torque	(IN-LB)
49160	69160	Aft Shaft Bending, Upper (0°-180°)	(IN-LB)
49170	69170	Aft Shaft Bending, Upper (90°-270°)	(IN-LB)
49230	69230	Aft Shaft Bending, Lower (0°-180°)	(IN-LB)
49240	69240	Aft Shaft Bending, Lower (90°-270°)	(IN-LB)
91020	-	A/C Rotor Speed - (RPM)	
14420	-	A/C Load Factor @ C.G. - (G's)	
34020	-	A/C Roll Attitude	(DEG.)
34010	-	A/C Pitch Attitude	(DEG.)

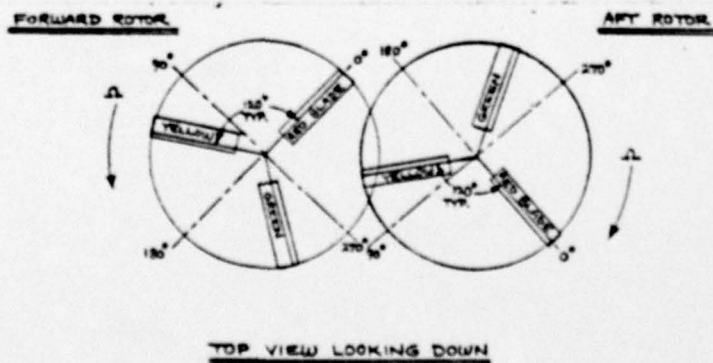
- NOTES:
1. A complete description of the instrumentation for this stress survey can be found in Volume 1.
  2. A flight by flight summary of operative gages can be found in Reference 2.
  3. The spare gages were utilized when the active gages proved inoperable.

## 3.2

## Sign Convention

The following table summarizes the sign convention adhered to for the gages presented in this volume. In addition, a sketch (found below), presents a top view of the forward and aft rotor blades showing the angular orientation and positioning of each blade.

<u>GAGE MEASUREMENT NAME</u>	<u>(+) POLARITY CONDITION</u>
Forward Rotor Shaft Torque	Blade Lagging
Forward Shaft Bending, Upper (0°-180°)	Red Blade Down
Forward Shaft Bending, Upper (90°-270°)	Yellow Blade Down
Forward Shaft Bending, Lower (0°-180°)	Red Blade Down
Forward Shaft Bending, Lower (90°-270°)	Yellow Blade Down
Aft Rotor Shaft Torque	Blade Lagging
Aft Shaft Bending, Upper (0°-180°)	Red Blade Down
Aft Shaft Bending, Upper (90°-270°)	Yellow Blade Down
Aft Shaft Bending, Lower (0°-180°)	Red Blade Down
Aft Shaft Bending, Lower (90°-270°)	Yellow Blade Down
A/C Rotor Speed - (RPM)	--
A/C Load Factor @ C.G. - (G's)	--
A/C Roll Attitude	A/C Right Side Down
A/C Pitch Attitude	A/C Nose Up



## 3.3 Flight Index Chart

<u>FLIGHT NUMBER</u>	<u>START OF TABULATION SEQUENCE</u>
114 _____	PAGE 17
115 _____	23
116 _____	35
117 _____	41
119 _____	47
121 _____	59
122 _____	71
124 _____	77
126 _____	89
127 _____	95
128 _____	101
132 _____	107
133 _____	113
134 _____	125
135 _____	131
136 _____	137
137 _____	143
138 _____	149
139 _____	155
140 _____	167
141 _____	173
142 _____	185
143 _____	197
151 _____	209
161 _____	215
162 _____	221
163 _____	227
166 _____	233
167 _____	239
177 _____	245



THE **BOEING** COMPANY

PREPARED BY: J. Bendo  
CHECKED BY:  
DATE: 9/5/78

D210-11168-3  
NUMBER Vol. 12  
REV LTR  
MODEL NO.

4. TABULATED DATA



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DATE:

D210-11168-3  
VOLUME 12

FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 114  
TSGW 20800 TSCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
1	57140.00	3016.00	40160.00	53270.00	114.50	23510.00	1
2	263500.00	12920.00	280700.00	245400.00	-1694.00	41590.00	2
3	290200.00	18100.00	310000.00	248000.00	566.50	57410.00	3
4	264400.00	45660.00	310000.00	196300.00	-4407.00	47020.00	4
5	261800.00	29300.00	315200.00	232500.00	9609.00	64650.00	5
6	245000.00	27140.00	347900.00	171300.00	-5320.00	91320.00	6
7	320800.00	62470.00	400500.00	174800.00	10500.00	133400.00	7
9	187700.00	45670.00	264400.00	14490.00	1019.00	28930.00	9
10	295400.00	17230.00	366000.00	260000.00	-8024.00	84090.00	10
11	187700.00	19820.00	222100.00	156700.00	-5768.00	76410.00	11
12	130800.00	15510.00	148000.00	108400.00	-3504.00	74140.00	12
13	155400.00	9904.00	190300.00	133400.00	-4416.00	84990.00	13
14	234200.00	15510.00	253200.00	212700.00	-3512.00	87700.00	14
15	292400.00	21110.00	322900.00	266100.00	2816.00	86800.00	15
16	318600.00	24990.00	355700.00	292800.00	5528.00	87700.00	16
17	333300.00	28440.00	365200.00	294500.00	7792.00	93580.00	17
18	332000.00	33180.00	366900.00	288500.00	6888.00	94490.00	18
19	308700.00	29730.00	362600.00	278100.00	10510.00	104400.00	19
20	230800.00	19820.00	249500.00	127400.00	-3056.00	94480.00	20
21	190700.00	15940.00	222100.00	117000.00	-4864.00	89060.00	21
22	195900.00	24560.00	298000.00	123100.00	-9840.00	101300.00	22
23	233800.00	19380.00	308300.00	131700.00	-2600.00	96740.00	23
24	187700.00	26710.00	373800.00	81700.00	-12100.00	113500.00	24
25	167400.00	28000.00	310000.00	93760.00	-15260.00	105800.00	25

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VOLUME 12

FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 114  
TGGW 20800 TCGG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	-2687.00	22380.00	1238.00	26120.00	-7337.00	26040.00	1
2	4922.00	43420.00	-5966.00	48630.00	4338.00	52090.00	2
3	3131.00	49680.00	9342.00	67540.00	296.00	57920.00	3
4	-897.00	46550.00	-4165.00	54930.00	3889.00	53430.00	4
5	-897.00	64450.00	13840.00	74740.00	4328.00	75430.00	5
6	-4488.00	97580.00	-5976.00	103600.00	-12740.00	114900.00	6
7	-8072.00	127100.00	2136.00	148600.00	-2856.00	136500.00	7
9	-4478.00	27750.00	-1914.00	29270.00	-15870.00	30980.00	9
10	13420.00	84140.00	-14080.00	98160.00	-1056.00	100600.00	10
11	9832.00	78780.00	-18580.00	89150.00	2984.00	97430.00	11
12	8936.00	76090.00	-12720.00	86000.00	1184.00	91150.00	12
13	8944.00	87730.00	-12730.00	98600.00	1640.00	103300.00	13
14	11180.00	85490.00	-10030.00	102200.00	3880.00	102800.00	14
15	12980.00	84590.00	776.00	100400.00	10620.00	100600.00	15
16	14100.00	84150.00	2136.00	103600.00	11510.00	101500.00	16
17	16550.00	90860.00	4384.00	110300.00	11510.00	110500.00	17
18	12070.00	91750.00	7080.00	113900.00	10620.00	111400.00	18
19	15210.00	109200.00	7536.00	129700.00	16000.00	126600.00	19
20	7600.00	92660.00	-9576.00	109900.00	-1952.00	112300.00	20
21	8496.00	90860.00	-13180.00	103600.00	-1056.00	107800.00	21
22	5360.00	104700.00	-19480.00	118900.00	-5552.00	125700.00	22
23	9840.00	97570.00	-7776.00	117100.00	-8240.00	119400.00	23
24	1784.00	113700.00	-23980.00	135100.00	-8696.00	138700.00	24
25	-23280.00	118200.00	-26690.00	124300.00	-4648.00	132900.00	25

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VOLUME 12

FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 114

TSGW 20800 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	74770.00	3472.00	79120.00	70430.00	-1313.00	9097.00	1
2	228900.00	7376.00	228000.00	207600.00	-522.00	32830.00	2
3	235800.00	12590.00	257100.00	207600.00	-19110.00	38760.00	3
4	239300.00	40370.00	304000.00	198900.00	-1709.00	36390.00	4
5	270000.00	10000.00	273600.00	203300.00	17270.00	59320.00	5
6	228400.00	19970.00	271800.00	164200.00	35460.00	168500.00	6
7	182400.00	74660.00	325700.00	105200.00	20830.00	125400.00	7
9	185500.00	48180.00	241400.00	22690.00	7784.00	12660.00	9
10	300500.00	14760.00	374300.00	272700.00	8960.00	75540.00	10
11	248800.00	16060.00	284000.00	230200.00	3829.00	47460.00	11
12	187600.00	12150.00	213700.00	173700.00	3829.00	56160.00	12
13	193700.00	10420.00	225000.00	164200.00	3424.00	82660.00	13
14	252300.00	13460.00	270100.00	228400.00	8968.00	70790.00	14
15	294100.00	19100.00	323100.00	265800.00	11740.00	76730.00	15
16	302200.00	21700.00	334400.00	271800.00	8960.00	82660.00	16
17	301800.00	29090.00	326900.00	272700.00	9360.00	88590.00	17
18	310500.00	32550.00	343000.00	271000.00	8560.00	88590.00	18
19	295300.00	28650.00	326100.00	266600.00	21620.00	101600.00	19
20	238800.00	19100.00	269200.00	173700.00	-928.00	91760.00	20
21	204100.00	18230.00	249300.00	146000.00	-928.00	94130.00	21
22	265300.00	25620.00	324800.00	162400.00	10540.00	97700.00	22
23	257100.00	19960.00	301400.00	154600.00	6584.00	97690.00	23
24	243200.00	39060.00	347400.00	177200.00	9360.00	156600.00	24
25	310900.00	36460.00	362100.00	157200.00	-4880.00	125000.00	25



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VOLUME 12

FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 114  
TGGW 20800 TCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	-547.00	8456.00	-5165.00	7637.00	4249.00	5893.00	1
2	1.00	35840.00	-5615.00	31450.00	1077.00	33540.00	2
3	-11420.00	41880.00	-30770.00	31450.00	-9350.00	34000.00	3
4	-10610.00	39460.00	-11010.00	35940.00	-6177.00	36260.00	4
5	-21080.00	61210.00	11910.00	50770.00	-9803.00	48960.00	5
6	-10620.00	185200.00	18180.00	129800.00	6968.00	136400.00	6
7	-23910.00	131700.00	9208.00	107400.00	-14790.00	107400.00	7
9	2674.00	11680.00	-6064.00	10330.00	4703.00	10880.00	9
10	-4176.00	75700.00	-7418.00	69190.00	5149.00	66630.00	10
11	3882.00	44290.00	-7861.00	45370.00	9689.00	40340.00	11
12	-547.50	55970.00	-7412.00	53010.00	8329.00	48960.00	12
13	-1360.00	84160.00	-8765.00	74130.00	6056.00	74790.00	13
14	-2968.00	76100.00	-2025.00	64700.00	3336.00	70260.00	14
15	-3376.00	80530.00	-680.00	66940.00	616.00	73880.00	15
16	-2968.00	84150.00	664.00	72780.00	-2104.00	76600.00	16
17	-2968.00	86570.00	-232.00	79060.00	-3464.00	78870.00	17
18	-3376.00	86980.00	-680.00	80410.00	-3464.00	78870.00	18
19	-3776.00	105900.00	11450.00	87160.00	3336.00	93830.00	19
20	-4176.00	92610.00	-9464.00	83100.00	616.00	82950.00	20
21	-11830.00	86570.00	-11020.00	84460.00	-6184.00	77060.00	21
22	-8608.00	97840.00	664.00	88950.00	-6184.00	88840.00	22
23	-9416.00	96230.00	-1576.00	87610.00	-7038.00	88850.00	23
24	-7808.00	159900.00	-26740.00	143300.00	-5280.00	147800.00	24
25	-17460.00	129300.00	-4272.00	122600.00	-14340.00	123300.00	25

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 114  
T0GN 20800 T0CG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	259.30	259.40	259.20	1.01	1.01	1.00	1
2	264.70	264.90	263.90	1.01	1.02	.98	2
3	264.00	264.90	263.30	1.00	1.04	.97	3
4	264.50	264.90	263.90	1.00	1.03	.98	4
5	263.70	265.30	263.30	.97	1.02	.96	5
6	265.30	266.40	263.10	.98	1.09	.88	6
7	264.50	265.10	262.90	.99	1.03	.96	7
9	297.30	359.60	240.20	1.00	1.02	.99	9
10	263.80	265.10	262.80	1.08	1.14	.98	10
11	264.30	264.60	263.70	1.02	1.06	.97	11
12	265.30	265.40	264.40	1.02	1.05	.94	12
13	263.70	265.10	262.60	.90	1.11	.87	13
14	264.10	264.40	263.70	.98	1.08	.93	14
15	264.30	264.60	263.70	1.05	1.07	.95	15
16	264.30	264.60	263.90	1.05	1.06	.96	16
17	263.90	264.40	263.70	.98	1.06	.94	17
18	264.20	264.30	264.10	.98	1.02	.97	18
19	263.70	264.60	263.10	1.00	1.23	.96	19
20	263.20	266.20	262.00	1.12	1.36	.98	20
21	264.20	265.60	262.80	1.13	1.31	.90	21
22	266.10	267.20	262.60	1.15	1.60	.85	22
23	262.60	266.80	261.40	1.38	1.53	1.00	23
24	266.30	268.60	260.70	1.36	1.91	.97	24
25	264.60	267.20	261.80	1.25	1.79	1.00	25

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 114

T0GW 20800 T0CG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	1.20	1.28	1.12	5.75	5.83	5.67	1
2	-.50	-.18	-1.15	6.54	7.33	5.75	2
3	-1.47	.63	-1.96	5.12	6.67	3.66	3
4	-.42	.47	-1.31	5.67	7.33	3.58	4
5	.47	1.77	-.01	5.08	6.92	4.58	5
6	-1.39	.31	-3.42	4.00	8.09	3.33	6
7	2.58	4.20	-.82	5.71	7.58	4.58	7
9	.07	.15	-.01	.74	1.49	-.09	9
10	-.74	1.44	-1.96	-3.34	3.25	-17.86	10
11	-.34	-.01	-.82	2.54	3.08	.74	11
12	-.34	.80	-.50	2.24	3.33	1.66	12
13	-.18	1.77	-.34	.41	.83	-4.10	13
14	-.26	.47	-1.15	-2.05	-1.34	-2.59	14
15	-.26	1.93	-1.47	-3.68	-3.34	-4.76	15
16	-.18	.31	-.82	-5.18	-4.01	-6.01	16
17	-.50	.80	-1.47	-3.68	-1.34	-6.77	17
18	1.28	1.61	.47	-7.98	-7.77	-8.35	18
19	-.01	.31	-1.15	-.38	2.75	-2.18	19
20	7.93	33.70	-3.09	7.84	9.75	-4.18	20
21	-20.44	3.55	-38.11	.16	1.66	-2.43	21
22	-19.71	-1.15	-50.10	3.33	5.16	-1.93	22
23	15.79	45.04	-.34	-.38	4.41	-3.93	23
24	-30.73	2.58	-56.42	-.67	9.00	-3.18	24
25	18.30	57.36	.80	.28	7.58	-2.51	25



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
TMGW 20800 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
1	293200.00	20250.00	355700.00	233300.00	-6672.00	82740.00	1
2	317300.00	12500.00	324100.00	295400.00	-8480.00	80930.00	2
3	310900.00	11200.00	324100.00	291900.00	-5320.00	78660.00	3
4	313500.00	11200.00	322400.00	293600.00	-8032.00	79570.00	4
5	300500.00	7760.00	317800.00	288500.00	-13900.00	79120.00	5
6	310500.00	9048.00	319500.00	291900.00	-7576.00	79110.00	6
7	323400.00	11630.00	328500.00	311700.00	-3050.00	41140.00	7
9	312600.00	14650.00	322400.00	293600.00	-3955.00	46560.00	9
10	310500.00	13350.00	326400.00	291900.00	-3502.00	43400.00	10
11	288900.00	15080.00	306600.00	266100.00	-4406.00	49730.00	11
12	258300.00	14650.00	279900.00	242000.00	-4406.00	60580.00	12
13	260000.00	13790.00	279900.00	242800.00	-8482.00	62850.00	13
14	204000.00	14650.00	219600.00	182500.00	-5313.00	66910.00	14
15	194100.00	15080.00	221300.00	177300.00	-4413.00	65110.00	15
16	200200.00	15080.00	223000.00	178200.00	-4406.00	56060.00	16
17	235900.00	17230.00	257500.00	212700.00	-4406.00	45210.00	17
18	204200.00	13350.00	219600.00	186000.00	-5765.00	66460.00	18
19	220400.00	23260.00	244500.00	186800.00	-8032.00	77760.00	19
20	222100.00	25850.00	257500.00	173900.00	-7120.00	79570.00	20
21	129100.00	14650.00	143700.00	109300.00	-2146.00	56510.00	21
22	92900.00	12060.00	106700.00	57570.00	1923.00	48830.00	22
23	41020.00	12060.00	79100.00	34310.00	1923.00	44300.00	23
24	233300.00	18100.00	240000.00	51540.00	-3960.00	71880.00	24
25	203600.00	18530.00	224700.00	168700.00	-5320.00	73240.00	25
26	222600.00	32310.00	259200.00	167900.00	-1696.00	81380.00	26
27	232000.00	26280.00	271200.00	169600.00	-344.00	81830.00	27
28	219100.00	16800.00	237600.00	197200.00	-9838.00	66910.00	28
29	210500.00	15080.00	229000.00	190300.00	-4865.00	64660.00	29
30	197200.00	13790.00	219600.00	183400.00	5992.00	64650.00	30
31	193700.00	22410.00	221300.00	168700.00	10500.00	77300.00	31
32	214000.00	44370.00	258300.00	150600.00	-5766.00	62840.00	32
33	215700.00	23700.00	241100.00	172200.00	10050.00	77760.00	33
34	192800.00	12920.00	209200.00	162700.00	-7122.00	65100.00	34
35	203200.00	31880.00	246300.00	156700.00	-1248.00	75500.00	35
36	215700.00	37480.00	274700.00	166100.00	-6216.00	78660.00	36
37	250100.00	35760.00	285900.00	167900.00	-9384.00	80020.00	37
38	217000.00	31020.00	254900.00	128200.00	-2600.00	78660.00	38
39	142700.00	19820.00	244500.00	142900.00	-5768.00	76410.00	39
40	184700.00	29730.00	254900.00	142900.00	112.00	79570.00	40
41	-37420.00	1939.00	-35480.00	-39360.00	5540.00	38880.00	41
42	-32040.00	5170.00	-26870.00	-39360.00	4184.00	40240.00	42
43	-33540.00	5316.00	-24280.00	-39360.00	9156.00	49730.00	43
44	-33970.00	5386.00	-28590.00	-39360.00	22720.00	50630.00	44
45	-36990.00	2370.00	-34620.00	-39360.00	2827.00	42500.00	45
46	-29670.00	9694.00	-14800.00	-39360.00	20900.00	92220.00	46
47	293700.00	13780.00	317800.00	267800.00	-3954.00	43850.00	47
48	296700.00	14220.00	320400.00	266900.00	-2598.00	52440.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115

TAGW 20800 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
49	276400.00	14650.00	316900.00	261800.00	1471.00	55610.00	49
50	248700.00	54280.00	340200.00	204900.00	-5311.00	52440.00	50
51	307900.00	51260.00	370300.00	221300.00	560.00	75500.00	51
52	-27510.00	11850.00	8462.00	-39360.00	-13000.00	86340.00	52
53	-28800.00	10560.00	3292.00	-39360.00	-6672.00	79120.00	53
54	-13080.00	10340.00	3292.00	-39360.00	-9386.00	61940.00	54
55	-26000.00	12060.00	-13940.00	-39360.00	-8032.00	77760.00	55
56	-31820.00	7540.00	-20830.00	-39360.00	-13000.00	70070.00	56
57	-30530.00	8832.00	-15660.00	-39360.00	-3960.00	75500.00	57
58	-30100.00	9263.00	-1016.00	-39360.00	-16170.00	90420.00	58
59	-21050.00	18310.00	-155.00	-39360.00	-13460.00	91330.00	59
60	343600.00	25850.00	377200.00	304800.00	2368.00	87250.00	60
61	194100.00	32310.00	287600.00	-39360.00	1016.00	82280.00	61

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115

TMGW 20800 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	9840.00	83250.00	-19030.00	102200.00	3432.00	99690.00	1
2	5808.00	83700.00	-7776.00	94560.00	-2856.00	101500.00	2
3	4912.00	83700.00	-12280.00	91850.00	-1952.00	99680.00	3
4	5360.00	81460.00	-11820.00	92300.00	744.00	96090.00	4
5	8944.00	79660.00	-10480.00	91860.00	3432.00	94300.00	5
6	9392.00	81010.00	-11820.00	92300.00	2536.00	96090.00	6
7	8055.00	36700.00	-5516.00	48180.00	2990.00	46250.00	7
9	8950.00	43860.00	-8668.00	54930.00	3440.00	54780.00	9
10	8950.00	40280.00	-7317.00	50880.00	3440.00	49390.00	10
11	7608.00	46100.00	-8217.00	57180.00	2542.00	56580.00	11
12	8950.00	55500.00	-8220.00	70690.00	744.00	67350.00	12
13	5810.00	61310.00	-14080.00	72950.00	-1952.00	70940.00	13
14	7155.00	65340.00	-12720.00	77900.00	-1056.00	79020.00	14
15	6706.00	63100.00	-10930.00	76990.00	-1056.00	76340.00	15
16	7607.00	51470.00	-9576.00	63940.00	-3296.00	61520.00	16
17	4922.00	44310.00	-12720.00	52680.00	-1500.00	48940.00	17
18	8050.00	65340.00	-11370.00	76550.00	-608.00	77680.00	18
19	7152.00	80560.00	-15880.00	90950.00	-1064.00	96090.00	19
20	7600.00	79220.00	-14530.00	93200.00	-1504.00	97440.00	20
21	9398.00	53260.00	-4168.00	64840.00	2092.00	61520.00	21
22	11640.00	43860.00	-4165.00	55830.00	3889.00	52530.00	22
23	11190.00	41620.00	-4615.00	51780.00	5236.00	49390.00	23
24	10290.00	70270.00	-9576.00	83750.00	2080.00	85760.00	24
25	5360.00	73410.00	-12730.00	86900.00	-2856.00	88900.00	25
26	5808.00	78320.00	-8680.00	94550.00	-2400.00	92940.00	26
27	12070.00	80120.00	-7328.00	99500.00	1640.00	101500.00	27
28	3120.00	69380.00	-16330.00	77900.00	-2408.00	80380.00	28
29	7153.00	61760.00	-11830.00	75200.00	736.00	75440.00	29
30	3573.00	65340.00	-10470.00	74750.00	-4200.00	80380.00	30
31	17000.00	76090.00	-23980.00	89160.00	15550.00	92050.00	31
32	4922.00	60420.00	-11370.00	72950.00	6128.00	71840.00	32
33	3120.00	81900.00	6184.00	91400.00	-1056.00	89810.00	33
34	5362.00	62650.00	-15880.00	74750.00	-1056.00	77230.00	34
35	5368.00	75190.00	-6872.00	90950.00	-608.00	94740.00	35
36	5360.00	80560.00	-14980.00	93660.00	296.00	95640.00	36
37	11630.00	83250.00	-11380.00	93650.00	15550.00	90260.00	37
38	9384.00	78330.00	-9128.00	93210.00	6128.00	90700.00	38
39	7592.00	76540.00	-12730.00	91400.00	1192.00	95640.00	39
40	8048.00	81460.00	-6872.00	94550.00	4776.00	96540.00	40
41	10740.00	37600.00	-3715.00	46380.00	4786.00	43550.00	41
42	11190.00	38040.00	-3265.00	48630.00	7930.00	44900.00	42
43	8503.00	52370.00	3940.00	59430.00	4786.00	60620.00	43
44	21480.00	55500.00	20590.00	58080.00	23190.00	61960.00	44
45	10290.00	40730.00	-3715.00	49980.00	5683.00	48940.00	45
46	-4040.00	89960.00	16100.00	102200.00	-10040.00	100600.00	46
47	7160.00	42970.00	-4165.00	50430.00	2093.00	49840.00	47
48	13430.00	52810.00	-3715.00	59880.00	16460.00	60610.00	48



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
TSGN 20800 TSCG 22.4 FWD FLIGHT DATE 03/02/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
49	16110.00	55490.00	5734.00	63930.00	18700.00	68240.00	49
50	893.50	53710.00	-10470.00	58540.00	-4645.00	61070.00	50
51	7152.00	82350.00	-4624.00	86000.00	3888.00	92050.00	51
52	4912.00	90860.00	-23980.00	104500.00	-4200.00	111800.00	52
53	10730.00	76980.00	-16330.00	90500.00	3432.00	92500.00	53
54	6260.00	66240.00	-16330.00	74300.00	-1960.00	81720.00	54
55	3128.00	76540.00	-12270.00	95460.00	-14930.00	94740.00	55
56	-3592.00	76090.00	-19480.00	86460.00	-15870.00	92940.00	56
57	8936.00	76090.00	-12730.00	90500.00	-608.00	94740.00	57
58	2672.00	99360.00	-23540.00	115700.00	-9592.00	125300.00	58
59	-2248.00	94440.00	-20380.00	117100.00	-11840.00	120300.00	59
60	15660.00	83700.00	328.00	102700.00	12860.00	101900.00	60
61	10740.00	83250.00	-5528.00	96810.00	6123.00	96990.00	61

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
TSGW 20800 TCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49200ALT	49200SDY	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	14320.00	302700.00	343000.00	198900.00	4223.00	64470.00	1
2	8680.00	326500.00	343900.00	309200.00	7376.00	74750.00	2
3	8680.00	319600.00	336900.00	307400.00	8177.00	71580.00	3
4	9120.00	309600.00	325700.00	290100.00	7386.00	72370.00	4
5	6944.00	310900.00	328300.00	304000.00	6991.00	67230.00	5
6	8248.00	318300.00	332600.00	306600.00	6200.00	68020.00	6
7	6080.00	311800.00	319600.00	299600.00	5015.00	19380.00	7
9	6512.00	307000.00	326500.00	300500.00	5806.00	23340.00	9
10	7808.00	309200.00	320400.00	297000.00	5411.00	18980.00	10
11	7808.00	292800.00	309200.00	282300.00	5015.00	21750.00	11
12	7376.00	279200.00	290900.00	270100.00	4620.00	33220.00	12
13	6944.00	278800.00	287500.00	266600.00	2247.00	32430.00	13
14	10860.00	249700.00	262300.00	234500.00	1456.00	29270.00	14
15	9120.00	251400.00	267500.00	238000.00	1851.00	28870.00	15
16	10860.00	287000.00	301400.00	261400.00	4224.00	28080.00	16
17	9112.00	307000.00	317000.00	290900.00	3433.00	32830.00	17
18	6944.00	244100.00	263200.00	233600.00	664.50	33220.00	18
19	10850.00	255800.00	269200.00	238800.00	1851.00	35990.00	19
20	13890.00	251000.00	294400.00	236200.00	-1313.00	42320.00	20
21	9552.00	215400.00	226700.00	203300.00	-126.50	37180.00	21
22	7384.00	162900.00	173700.00	133800.00	-522.00	32040.00	22
23	8248.00	135100.00	143400.00	102600.00	2247.00	29270.00	23
24	11280.00	225000.00	295300.00	139000.00	-3291.00	45880.00	24
25	11280.00	242400.00	268400.00	216300.00	-1313.00	39160.00	25
26	19100.00	274400.00	326500.00	220600.00	-3291.00	40340.00	26
27	16930.00	291400.00	320400.00	254500.00	-2895.00	47070.00	27
28	14760.00	251000.00	271800.00	215400.00	-2104.00	41530.00	28
29	10420.00	242300.00	256200.00	226700.00	-917.50	26890.00	29
30	9112.00	242200.00	255300.00	229300.00	664.50	32430.00	30
31	19970.00	247500.00	267500.00	225000.00	-3686.00	41530.00	31
32	36900.00	228000.00	282300.00	191100.00	-2500.00	35600.00	32
33	24740.00	244500.00	276200.00	213700.00	-1709.00	40340.00	33
34	13020.00	251900.00	264900.00	226700.00	-1709.00	27690.00	34
35	35590.00	280500.00	316100.00	211100.00	-522.00	32040.00	35
36	46450.00	284400.00	333500.00	225000.00	-2104.00	33620.00	36
37	32550.00	304400.00	336900.00	211100.00	-1709.00	36390.00	37
38	21700.00	231000.00	313500.00	198900.00	-2500.00	52210.00	38
39	16500.00	263200.00	294400.00	205900.00	-3291.00	53000.00	39
40	16500.00	255300.00	282300.00	219700.00	-5268.00	54180.00	40
41	4775.00	31810.00	37450.00	23560.00	1851.00	31250.00	41
42	7380.00	32670.00	40920.00	15750.00	2247.00	25310.00	42
43	6077.00	27900.00	40050.00	16610.00	4620.00	49040.00	43
44	10420.00	25640.00	42660.00	14010.00	3038.00	37970.00	44
45	9984.00	33540.00	53940.00	23560.00	3829.00	31640.00	45
46	15630.00	42660.00	58280.00	2724.00	29130.00	107600.00	46
47	11290.00	257100.00	273600.00	235400.00	-3291.00	34010.00	47
48	12580.00	256600.00	284900.00	231000.00	-14760.00	36780.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115

TSGW 20000 TSCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49200ALT	49200SDY	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
49	19530.00	250600.00	287500.00	229300.00	-4873.00	36390.00	49
50	52520.00	270500.00	330000.00	205900.00	-2500.00	40340.00	50
51	47310.00	250600.00	340400.00	187600.00	-136.00	69610.00	51
52	18670.00	23990.00	69570.00	-18980.00	-9624.00	84630.00	52
53	16930.00	31810.00	62630.00	5328.00	-2904.00	69210.00	53
54	12590.00	39620.00	58280.00	12270.00	-2895.00	66050.00	54
55	12590.00	19650.00	39190.00	4460.00	-12390.00	62100.00	55
56	17360.00	26160.00	43530.00	8801.00	-12390.00	57350.00	56
57	13890.00	20950.00	46130.00	3592.00	-5664.00	63280.00	57
58	19970.00	32240.00	80850.00	5328.00	-11600.00	73170.00	58
59	32560.00	73480.00	106000.00	-10300.00	-4086.00	65660.00	59
60	22570.00	314400.00	336900.00	269200.00	7376.00	78700.00	60
61	39500.00	253200.00	354300.00	14880.00	-9624.00	67240.00	61



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
TORGW 20000 TORG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	-949.50	62010.00	-3818.00	60200.00	169.50	55300.00	1
2	-6600.00	74090.00	-1584.00	68740.00	-3009.00	63920.00	2
3	-4176.00	70060.00	-1577.00	64250.00	1530.00	60290.00	3
4	-3376.00	70060.00	-1574.00	66040.00	2890.00	60740.00	4
5	-2161.00	64830.00	-1572.00	60650.00	3343.00	55760.00	5
6	-2561.00	65230.00	-2919.00	61100.00	2890.00	56210.00	6
7	-3769.00	18930.00	2472.00	23360.00	169.50	18130.00	7
9	-2963.00	21340.00	2023.00	26510.00	-737.00	20850.00	9
10	-3366.00	17720.00	2023.00	22910.00	-737.00	17230.00	10
11	-3366.00	20130.00	226.00	23810.00	1076.00	19950.00	11
12	-5782.00	29800.00	225.50	33690.00	-2097.00	28560.00	12
13	-5782.00	29800.00	226.00	32800.00	-5270.00	29920.00	13
14	-4574.00	29390.00	-672.50	30100.00	-2097.00	29460.00	14
15	-547.50	29390.00	-2919.00	29650.00	1529.00	29460.00	15
16	-2963.00	30200.00	1574.00	24260.00	-283.50	26740.00	16
17	-4977.00	33020.00	2023.00	31000.00	-2097.00	30370.00	17
18	-6990.00	31810.00	-673.00	31000.00	-2551.00	31730.00	18
19	-6587.00	38660.00	-2470.00	35490.00	-3004.00	37620.00	19
20	-6185.00	45500.00	-2470.00	41780.00	-5724.00	43970.00	20
21	-2158.00	36340.00	-4267.00	36390.00	1983.00	35360.00	21
22	-547.50	29390.00	-1571.00	32800.00	4703.00	27200.00	22
23	-1353.00	29390.00	-1571.00	29200.00	4703.00	25380.00	23
24	-2561.00	43490.00	-6513.00	44030.00	-283.50	43970.00	24
25	-6587.00	41880.00	-1571.00	39980.00	-5270.00	41700.00	25
26	-4171.00	45900.00	-2919.00	42230.00	-2097.00	46690.00	26
27	-7796.00	48720.00	-3818.00	46720.00	-6177.00	49860.00	27
28	-8601.00	40670.00	-3368.00	39980.00	-6630.00	39440.00	28
29	-5379.00	26170.00	-1122.00	26960.00	-2097.00	25840.00	29
30	-9003.00	36240.00	5617.00	31000.00	-7537.00	35810.00	30
31	-6587.00	45900.00	14150.00	43130.00	-8443.00	46690.00	31
32	-8198.00	33820.00	-3369.00	35490.00	-2097.00	32180.00	32
33	258.50	53550.00	-11010.00	35940.00	1983.00	49860.00	33
34	-2963.00	31010.00	-3369.00	26510.00	1077.00	27200.00	34
35	-1755.00	36240.00	-2021.00	29650.00	623.00	33090.00	35
36	-4574.00	38250.00	-5165.00	31000.00	-2097.00	35810.00	36
37	-9003.00	38660.00	1125.00	33690.00	-7083.00	37170.00	37
38	-4977.00	51540.00	-3818.00	49420.00	-3457.00	51680.00	38
39	-9406.00	52750.00	-5615.00	49420.00	-7990.00	52580.00	39
40	-9809.00	55570.00	-7861.00	52560.00	-13890.00	54850.00	40
41	-6990.00	32620.00	-223.50	26060.00	3343.00	28560.00	41
42	-4977.00	27380.00	-1122.00	21560.00	1530.00	22210.00	42
43	-6185.00	53330.00	226.00	39980.00	3343.00	39440.00	43
44	-8198.00	39460.00	2023.00	29200.00	169.50	31730.00	44
45	-5782.00	34630.00	-3818.00	27850.00	2889.00	28100.00	45
46	-27540.00	107100.00	18630.00	89850.00	-11620.00	82500.00	46
47	-4574.00	35030.00	-3368.00	31000.00	-2551.00	31730.00	47
48	-13430.00	39860.00	1124.00	32800.00	-9803.00	33540.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
TOGW 20800 TDCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
49	-6587.00	41070.00	-3368.00	36390.00	-18420.00	34900.00	49
50	-6587.00	39460.00	-3369.00	37290.00	-284.00	35810.00	50
51	-152.00	62840.00	-6517.00	60200.00	3343.00	56660.00	51
52	-152.00	77300.00	-15950.00	80420.00	1976.00	77060.00	52
53	7501.00	68850.00	-7867.00	63350.00	3338.00	63910.00	53
54	-2969.00	63220.00	-10560.00	61550.00	6969.00	58480.00	54
55	4480.00	62810.00	-18200.00	59310.00	1530.00	62100.00	55
56	-2963.00	57580.00	-18650.00	57960.00	-1190.00	60290.00	56
57	7499.00	62410.00	-14160.00	61550.00	8327.00	62550.00	57
58	-7801.00	68060.00	-16400.00	73680.00	-3920.00	71170.00	58
59	5088.00	63220.00	-18640.00	61550.00	623.00	60290.00	59
60	-3776.00	81930.00	-232.00	70090.00	-4368.00	71620.00	60
61	6693.00	68040.00	-15050.00	63350.00	1530.00	62100.00	61

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
T0GN 20800 T0CG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	262.80	265.10	262.60	.99	1.12	.94	1
2	264.30	264.40	263.70	1.07	1.11	1.02	2
3	264.10	264.60	263.90	.98	1.03	.96	3
4	264.10	264.40	263.90	.95	1.01	.92	4
5	264.10	264.60	263.70	.99	1.04	.96	5
6	264.10	264.40	263.70	1.02	1.03	.99	6
7	264.10	264.30	263.90	.98	1.01	.98	7
9	262.30	262.40	261.80	1.01	1.02	.99	9
10	259.10	259.20	258.60	.98	1.01	.97	10
11	263.20	263.50	263.10	1.01	1.02	.99	11
12	264.00	264.30	263.70	1.00	1.02	.98	12
13	263.80	264.30	263.70	.99	1.02	.97	13
14	263.80	263.90	263.70	.99	1.01	.97	14
15	263.70	264.10	263.50	1.01	1.02	.98	15
16	263.80	263.90	263.50	.99	1.02	.99	16
17	263.40	263.70	263.30	.99	1.00	.98	17
18	264.20	264.30	263.70	.99	.99	.97	18
19	263.80	264.40	263.70	1.02	1.03	.98	19
20	263.80	264.40	262.90	1.03	1.07	.97	20
21	263.20	263.70	263.10	1.01	1.02	1.01	21
22	265.60	265.80	264.90	.93	.97	.92	22
23	265.40	266.80	265.30	.93	.98	.90	23
24	261.30	263.70	259.80	1.04	1.09	1.01	24
25	264.20	264.60	263.30	.94	1.08	.92	25
26	263.60	265.30	263.10	1.13	1.18	.96	26
27	263.90	264.40	262.90	1.10	1.19	1.03	27
28	263.50	263.90	263.30	1.04	1.05	1.01	28
29	263.80	264.10	263.70	.99	1.01	.98	29
30	263.30	263.90	263.10	.98	1.00	.96	30
31	263.50	263.70	262.90	1.03	1.05	1.01	31
32	264.00	264.30	263.50	.97	.99	.91	32
33	263.10	264.40	262.20	.96	1.02	.90	33
34	266.50	268.40	263.70	1.01	1.05	.99	34
35	263.10	268.60	262.00	1.05	1.22	.90	35
36	264.90	268.40	262.00	1.08	1.24	.92	36
37	263.70	268.80	262.60	1.09	1.24	.91	37
38	263.60	264.60	262.90	1.06	1.17	.90	38
39	264.00	264.30	262.80	.98	1.16	.87	39
40	264.80	265.40	263.10	1.06	1.19	.87	40
41	276.70	277.60	275.40	1.02	1.04	.98	41
42	276.50	279.30	269.10	.97	1.15	.93	42
43	272.10	278.00	268.90	1.04	1.14	.95	43
44	275.60	276.70	270.80	.98	1.03	.96	44
45	276.50	279.30	273.40	1.03	1.08	.97	45
46	266.80	269.10	266.00	.97	1.02	.91	46
47	264.10	264.40	263.50	.98	.99	.96	47
48	263.90	264.30	263.10	1.01	1.02	.98	48



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# FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115

TSGW 20800 TCGG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
49	263.50	264.30	263.30	.98	1.01	.96	49
50	264.30	264.90	263.30	1.00	1.03	.96	50
51	262.80	264.40	262.40	.98	1.02	.95	51
52	279.10	282.50	270.10	1.41	1.54	.91	52
53	273.70	280.30	262.60	.99	1.43	.93	53
54	265.60	266.00	261.80	.90	1.08	.84	54
55	276.70	277.30	275.40	1.01	1.06	.99	55
56	274.10	274.40	273.20	.99	1.07	.90	56
57	272.90	273.80	272.40	1.02	1.06	.99	57
58	287.40	294.10	261.10	1.26	1.49	.65	58
59	280.00	283.60	264.10	1.57	1.81	.85	59
60	263.90	264.40	263.70	.95	1.09	.88	60
61	259.60	270.60	254.60	1.05	1.19	.90	61

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115  
TGGW 20800 TCGG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	.96	2.26	-2.93	3.79	6.00	-8.18	1
2	1.44	1.77	1.12	1.45	1.99	.49	2
3	.96	1.12	-.01	-1.05	-.09	-1.43	3
4	1.28	1.77	.63	-1.01	-.34	-2.09	4
5	.96	1.12	.15	1.74	1.99	1.08	5
6	.15	.31	-.01	1.49	1.83	1.08	6
7	1.12	1.77	.96	6.21	6.92	5.42	7
9	.88	1.44	.47	5.54	6.83	5.33	9
10	-.18	.47	-.82	6.13	6.92	5.25	10
11	.47	.80	.15	5.83	6.33	4.75	11
12	-.01	1.12	-.18	4.62	5.08	2.91	12
13	.47	2.26	-.01	2.49	4.08	1.91	13
14	1.69	2.09	1.61	5.00	5.58	3.58	14
15	.80	.96	.31	5.21	5.50	3.41	15
16	.23	.47	-.50	6.04	6.67	5.00	16
17	.15	.31	-.01	7.08	7.67	6.33	17
18	-.82	-.34	-1.15	2.70	4.41	2.33	18
19	-.50	.47	-1.47	4.46	5.25	4.00	19
20	8.66	12.14	1.44	6.21	11.34	4.66	20
21	-.34	.15	-.50	5.46	5.83	4.91	21
22	-.34	-.18	-.66	4.66	4.91	4.00	22
23	.47	.96	-.50	5.25	5.58	4.66	23
24	.88	3.23	.31	4.54	7.08	2.58	24
25	-3.42	3.88	-14.76	7.25	13.26	6.67	25
26	-11.44	3.23	-30.65	11.51	12.51	4.83	26
27	3.47	28.19	.15	8.71	10.34	4.75	27
28	-1.64	-1.31	-2.61	4.46	5.50	3.33	28
29	.88	1.93	.63	4.41	4.58	3.91	29
30	-.10	.96	-.66	2.16	2.41	.83	30
31	-.34	.31	-1.31	4.12	4.66	3.75	31
32	-.58	-.34	-1.15	1.12	2.75	.66	32
33	-.99	-.18	-1.31	3.45	3.66	3.25	33
34	.88	1.12	-.01	5.04	5.75	4.66	34
35	.80	1.28	-.34	4.33	5.16	2.91	35
36	-1.96	-.50	-2.12	2.91	3.91	2.16	36
37	-.42	.15	-.66	4.37	4.75	3.33	37
38	.23	.80	-1.31	9.00	12.42	.08	38
39	.72	1.12	-1.80	5.46	11.76	-.26	39
40	-2.77	.63	-3.26	-.01	9.25	-7.68	40
41	-.01	.47	-.50	6.50	6.67	6.25	41
42	-9.17	-7.63	-15.09	7.59	8.92	5.75	42
43	10.03	20.73	2.09	8.96	10.34	7.50	43
44	-.58	-.01	-1.96	8.67	9.17	7.84	44
45	-.34	-.18	-.99	7.75	8.34	5.75	45
46	-1.07	.31	-1.80	6.42	6.75	6.08	46
47	-.99	-.34	-1.31	5.37	5.92	4.66	47
48	-1.72	-.01	-2.93	4.66	5.42	4.00	48

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# FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 115

TSGW 20800 TSCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
49	-.10	.47	-2.28	4.83	5.33	4.25	49
50	-.82	-.34	-.99	4.62	6.17	3.16	50
51	-.74	-.18	-1.80	6.00	6.58	5.33	51
52	-10.55	-.66	-42.15	5.75	7.50	-1.68	52
53	18.22	44.39	2.09	5.92	9.09	-14.52	53
54	-.58	-.01	-1.15	-2.05	.74	-5.51	54
55	-2.77	-.50	-4.39	3.75	4.25	3.58	55
56	-.50	-.01	-.82	3.50	4.08	2.58	56
57	-.42	.31	-.99	4.08	4.75	3.25	57
58	.88	1.44	-.82	3.58	14.93	.74	58
59	-.34	.96	-1.80	2.45	3.41	-1.68	59
60	-.66	.15	-1.47	-6.64	-5.01	-7.27	60
61	-2.04	3.88	-3.74	5.83	22.10	-1.01	61



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 116

TGW 20800 TCG 22.4 FWD FLIGHT DATE 03/02/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	183400.00	24980.00	246300.00	104100.00	-1696.00	83180.00	2
3	218300.00	29730.00	276400.00	133400.00	-2600.00	80470.00	3
4	102400.00	36190.00	323800.00	43790.00	1008.00	94030.00	4
5	220400.00	23260.00	284200.00	130800.00	112.00	88610.00	5
6	208800.00	29730.00	327300.00	121300.00	-1704.00	105800.00	6
7	289800.00	30590.00	327300.00	99790.00	3272.00	96300.00	7
8	181200.00	15940.00	209200.00	46370.00	-9832.00	87700.00	8
9	234600.00	53850.00	366000.00	148900.00	-24760.00	110800.00	9
10	201500.00	32740.00	309200.00	155800.00	-9392.00	111700.00	10
11	333700.00	66780.00	400500.00	199700.00	-4416.00	108500.00	11
12	248300.00	33610.00	344500.00	209200.00	-7584.00	106200.00	12
13	304400.00	35750.00	384100.00	254000.00	2816.00	95840.00	13
14	304400.00	34900.00	372900.00	253200.00	-15260.00	112100.00	14
15	314800.00	28860.00	344300.00	265200.00	8696.00	98100.00	15
16	302700.00	18530.00	323300.00	279900.00	3728.00	88610.00	16
17	341900.00	24130.00	367800.00	304000.00	3720.00	91320.00	17
18	287200.00	24550.00	311700.00	251400.00	21360.00	83630.00	18
19	287400.00	35760.00	306600.00	231600.00	7344.00	84990.00	19
20	279000.00	36190.00	325500.00	232500.00	6888.00	86340.00	20
21	300100.00	24560.00	324700.00	242000.00	27230.00	94940.00	21
22	329400.00	28860.00	346900.00	300500.00	15020.00	92670.00	22
23	338000.00	42650.00	390200.00	283300.00	5536.00	92220.00	23
24	332900.00	48680.00	393600.00	273800.00	47120.00	129300.00	24
25	184200.00	19820.00	215200.00	158400.00	1464.00	80920.00	25
26	141600.00	11630.00	184100.00	126500.00	1920.00	72340.00	26
27	44460.00	9474.00	75660.00	51540.00	5540.00	59680.00	27
28	212700.00	21540.00	276400.00	53270.00	-4864.00	92670.00	28
29	298400.00	15080.00	329800.00	283300.00	-3502.00	38880.00	29
30	-14800.00	16370.00	102400.00	-39360.00	-6672.00	92670.00	30
31	-12650.00	14220.00	87730.00	-39360.00	7792.00	77310.00	31
32	13630.00	13790.00	27420.00	-2740.00	29950.00	64190.00	32
33	10190.00	11200.00	21390.00	-5324.00	-3053.00	63750.00	33
34	11050.00	17230.00	28280.00	-21700.00	9600.00	97200.00	34
35	45510.00	10340.00	55850.00	-1016.00	10960.00	60580.00	35
36	8031.00	22830.00	91170.00	-39360.00	-2152.00	73690.00	36
37	-4894.00	28000.00	31730.00	-35480.00	-9832.00	91320.00	37
38	222100.00	24980.00	267800.00	43790.00	-2152.00	74600.00	38
39	235900.00	29300.00	280700.00	24830.00	-792.00	80470.00	39
40	219600.00	32740.00	316900.00	-33760.00	-7120.00	83180.00	40
41	124500.00	25850.00	28700.00	58440.00	2824.00	78660.00	41
42	147000.00	31880.00	247100.00	68770.00	5540.00	46110.00	42

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 116  
TGW 20800 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	15660.00	83700.00	-17230.00	97710.00	8368.00	101000.00	2
3	14310.00	80570.00	-13180.00	94550.00	6128.00	98780.00	3
4	19240.00	92650.00	-9128.00	110300.00	14210.00	105100.00	4
5	16550.00	86380.00	-7320.00	104000.00	9264.00	107300.00	5
6	19680.00	98460.00	-7328.00	124700.00	12420.00	119400.00	6
7	16550.00	89060.00	-11380.00	111700.00	10620.00	108700.00	7
8	4464.00	96670.00	-26690.00	106300.00	-2688.00	119000.00	8
9	888.00	122600.00	-37040.00	131900.00	-10940.00	145500.00	9
10	4920.00	110600.00	-21290.00	132400.00	-13630.00	135600.00	10
11	-4720.00	99810.00	-11380.00	125200.00	9712.00	113200.00	11
12	6704.00	109700.00	-19480.00	123400.00	-16330.00	130200.00	12
13	9832.00	93990.00	-16330.00	113000.00	10620.00	107800.00	13
14	-4480.00	116400.00	-23540.00	131000.00	-19920.00	132900.00	14
15	888.00	98470.00	7080.00	113000.00	-5104.00	113600.00	15
16	14770.00	84590.00	-568.00	102700.00	8376.00	102800.00	16
17	12080.00	87280.00	-1016.00	106700.00	8376.00	103700.00	17
18	12520.00	92200.00	2584.00	99510.00	5232.00	119400.00	18
19	9840.00	83250.00	3032.00	99060.00	6120.00	95190.00	19
20	15210.00	79670.00	-120.00	106700.00	7928.00	96090.00	20
21	888.00	96680.00	25540.00	117100.00	-1056.00	108700.00	21
22	17890.00	99360.00	15180.00	118400.00	20490.00	116700.00	22
23	17900.00	91300.00	-568.00	109900.00	14210.00	105100.00	23
24	-5376.00	119100.00	53460.00	146800.00	10620.00	141000.00	24
25	10730.00	78780.00	-6424.00	93210.00	736.00	93390.00	25
26	10290.00	68480.00	-4176.00	82850.00	4784.00	78580.00	26
27	10730.00	59970.00	-2368.00	69340.00	4779.00	69590.00	27
28	11630.00	88620.00	-13180.00	108100.00	2528.00	106900.00	28
29	5369.00	42070.00	-8218.00	47280.00	-1500.00	51640.00	29
30	19240.00	91750.00	-22180.00	109900.00	7920.00	114000.00	30
31	440.00	74740.00	6184.00	82390.00	-4200.00	83060.00	31
32	-4040.00	73850.00	6176.00	73390.00	-10040.00	87110.00	32
33	10740.00	55500.00	-18580.00	81950.00	5677.00	68690.00	33
34	-3592.00	92200.00	-2376.00	109900.00	-14530.00	103300.00	34
35	9841.00	64450.00	1680.00	77890.00	3432.00	79030.00	35
36	3128.00	72950.00	-13620.00	90500.00	-9144.00	88010.00	36
37	6704.00	87280.00	-25340.00	110300.00	-6000.00	106400.00	37
38	10290.00	73840.00	-12730.00	87800.00	-9136.00	92500.00	38
39	11180.00	78330.00	-10020.00	93210.00	-2400.00	91150.00	39
40	7600.00	90860.00	-19940.00	95010.00	-2856.00	107800.00	40
41	17450.00	72060.00	-5976.00	90060.00	-1056.00	87100.00	41
42	-4030.00	51470.00	-1914.00	47280.00	-15420.00	56580.00	42

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CH-46 FGR STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 116

TAGW 20300 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	245400.00	22140.00	303100.00	201500.00	22410.00	141200.00	2
3	264900.00	27780.00	321300.00	184200.00	2240.00	81470.00	3
4	253200.00	33420.00	313500.00	187600.00	25570.00	156200.00	4
5	288800.00	23870.00	347400.00	170300.00	-3296.00	73570.00	5
6	296100.00	32990.00	377700.00	165100.00	1048.00	108000.00	6
7	290900.00	26040.00	377700.00	180700.00	3432.00	97690.00	7
8	182000.00	18660.00	220600.00	143400.00	1840.00	100100.00	8
9	257500.00	49920.00	402100.00	144200.00	10540.00	105600.00	9
10	283100.00	29510.00	312600.00	199800.00	33880.00	156600.00	10
11	329100.00	59900.00	402100.00	189400.00	14100.00	102800.00	11
12	278800.00	24300.00	333500.00	231900.00	13710.00	114300.00	12
13	281400.00	29520.00	376000.00	247500.00	16080.00	108000.00	13
14	317400.00	29940.00	363000.00	249300.00	15290.00	127800.00	14
15	296200.00	25180.00	336900.00	258000.00	10140.00	94130.00	15
16	292700.00	19100.00	315200.00	270100.00	8960.00	83460.00	16
17	322200.00	19100.00	350800.00	283100.00	12130.00	82660.00	17
18	262700.00	25610.00	297900.00	237100.00	9756.00	72370.00	18
19	279600.00	32990.00	312600.00	231900.00	15300.00	80290.00	19
20	264000.00	33860.00	308300.00	208500.00	656.00	79100.00	20
21	264900.00	36460.00	301400.00	228400.00	17660.00	87410.00	21
22	305700.00	28660.00	338700.00	260600.00	20040.00	88930.00	22
23	306600.00	40800.00	356900.00	249300.00	12130.00	91360.00	23
24	287900.00	59460.00	369100.00	228400.00	37050.00	128900.00	24
25	194800.00	13460.00	218000.00	171100.00	4608.00	77520.00	25
26	149900.00	8248.00	145100.00	141600.00	7386.00	66840.00	26
27	88220.00	12590.00	101700.00	73040.00	-4082.00	60120.00	27
28	235400.00	17360.00	277000.00	73900.00	8176.00	87410.00	28
29	266500.00	8248.00	266600.00	234500.00	4224.00	28870.00	29
30	5762.00	23010.00	150300.00	-31130.00	4608.00	79100.00	30
31	79110.00	19090.00	105200.00	-10300.00	-10020.00	68430.00	31
32	24430.00	17360.00	41790.00	4460.00	18460.00	61300.00	32
33	23990.00	16930.00	40920.00	4460.00	-6455.00	53000.00	33
34	15310.00	15190.00	30500.00	-18110.00	5400.00	91750.00	34
35	52640.00	13460.00	46100.00	7932.00	4620.00	56950.00	35
36	26600.00	30820.00	103400.00	-19850.00	19240.00	85030.00	36
37	22690.00	24310.00	58280.00	-1617.00	13310.00	86220.00	37
38	340000.00	20000.00	307400.00	100800.00	-928.00	77520.00	38
39	320000.00	20000.00	340400.00	98210.00	3032.00	71190.00	39
40	311800.00	32120.00	395100.00	37450.00	-10020.00	72380.00	40
41	221000.00	32990.00	288300.00	131200.00	-2900.00	66840.00	41
42	155900.00	29080.00	204100.00	63490.00	6993.00	34010.00	42



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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 116  
TSGW 20300 TBCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	4680.00	137700.00	6960.00	121300.00	20100.00	117000.00	2
3	1456.00	84560.00	-4272.00	73230.00	8328.00	81590.00	3
4	-1360.00	157400.00	6504.00	135200.00	12860.00	130600.00	4
5	6696.00	73690.00	-14610.00	68290.00	-4822.00	70270.00	5
6	-10220.00	112300.00	-2480.00	102900.00	-8448.00	112000.00	6
7	-2168.00	98650.00	-11910.00	90740.00	616.00	90200.00	7
8	-1768.00	110300.00	-6968.00	90300.00	3784.00	100600.00	8
9	-11020.00	107500.00	2016.00	97490.00	-7096.00	97910.00	9
10	-20690.00	163900.00	6960.00	133000.00	9224.00	132400.00	10
11	-15050.00	103500.00	2464.00	88940.00	-17510.00	93830.00	11
12	-15860.00	114000.00	6960.00	105100.00	-13900.00	104700.00	12
13	-10220.00	110700.00	7856.00	96140.00	-6640.00	101100.00	13
14	-2568.00	126400.00	7856.00	114100.00	-7088.00	110600.00	14
15	-11020.00	95420.00	5608.00	83110.00	-1648.00	87940.00	15
16	-3376.00	87780.00	2912.00	73230.00	-1648.00	80690.00	16
17	-4576.00	84960.00	5160.00	77270.00	-2560.00	77060.00	17
18	248.00	78520.00	664.00	67380.00	2880.00	71620.00	18
19	9112.00	76100.00	10560.00	75470.00	11500.00	72980.00	19
20	248.00	83350.00	-8765.00	74130.00	2888.00	78870.00	20
21	-952.00	95830.00	6952.00	83560.00	5152.00	81140.00	21
22	-4176.00	85360.00	17290.00	82210.00	-5280.00	77970.00	22
23	-2168.00	88980.00	4264.00	81770.00	-3008.00	81140.00	23
24	-23500.00	128000.00	18640.00	103300.00	-6184.00	101500.00	24
25	-552.00	81740.00	-6517.00	71880.00	3792.00	75250.00	25
26	648.00	69260.00	-4268.00	64240.00	8322.00	63450.00	26
27	9115.00	59190.00	-16850.00	59760.00	16480.00	56200.00	27
28	-5722.00	89390.00	216.00	82220.00	-5280.00	80690.00	28
29	-2963.00	31010.00	-1571.00	27400.00	1530.00	28560.00	29
30	648.00	78920.00	-22240.00	82220.00	19660.00	72980.00	30
31	5888.00	68850.00	-25380.00	76380.00	14670.00	73430.00	31
32	-1756.00	62010.00	5615.00	64240.00	11040.00	58010.00	32
33	13960.00	49930.00	-18200.00	58410.00	27360.00	52580.00	33
34	-9008.00	99060.00	0.0	80000.00	4696.00	87030.00	34
35	11530.00	57580.00	-9664.00	61550.00	24650.00	59830.00	35
36	-3776.00	83340.00	11450.00	93450.00	6504.00	89750.00	36
37	-2168.00	86570.00	-6072.00	99290.00	9680.00	95650.00	37
38	1056.00	73510.00	-18200.00	71880.00	-744.00	69800.00	38
39	7904.00	68450.00	-6519.00	64700.00	10140.00	63460.00	39
40	2264.00	73290.00	-20900.00	66500.00	6514.00	67090.00	40
41	5491.00	67650.00	-11910.00	61100.00	12400.00	59370.00	41
42	-547.00	37450.00	-8759.00	29200.00	2436.00	31280.00	42

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AIRCRAFT SLP1 FLIGHT 116

TOW 20800 TCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	265.90	267.40	262.90	1.17	1.36	.99	2
3	264.30	266.20	262.60	1.15	1.21	.94	3
4	266.60	267.20	262.40	1.27	1.59	.90	4
5	264.60	266.20	262.00	.97	1.35	.91	5
6	265.10	267.00	261.60	1.20	1.68	.86	6
7	266.90	267.40	262.40	.96	1.42	.84	7
8	265.30	268.40	262.60	1.17	1.49	.78	8
9	263.20	273.00	261.10	1.31	1.61	.82	9
10	263.50	266.60	261.40	1.18	1.55	.58	10
11	267.10	271.50	262.00	1.22	1.45	.79	11
12	263.60	265.10	261.60	1.11	1.45	.90	12
13	264.40	265.60	262.80	1.11	1.29	.94	13
14	264.20	265.30	262.80	1.15	1.44	.93	14
15	263.60	265.10	262.90	1.00	1.28	.92	15
16	264.20	264.30	263.50	1.03	1.09	.94	16
17	263.80	264.30	263.30	1.00	1.07	.93	17
18	263.80	265.10	263.30	.91	1.05	.88	18
19	264.20	264.60	263.70	.99	1.08	.94	19
20	264.10	264.40	263.70	1.03	1.11	.94	20
21	262.90	265.30	262.20	.94	1.08	.87	21
22	263.60	264.60	263.30	.98	1.09	.93	22
23	264.10	264.90	263.70	.98	1.11	.87	23
24	263.40	265.10	262.90	1.03	1.17	.89	24
25	263.00	264.30	262.40	1.05	1.09	.95	25
26	264.40	264.90	264.10	.99	1.04	.96	26
27	264.10	264.60	263.70	.94	.99	.93	27
28	263.30	265.10	259.40	1.15	1.31	1.00	28
29	264.10	264.60	263.70	1.00	1.01	.98	29
30	267.10	293.70	256.30	1.08	1.68	.95	30
31	264.50	284.90	256.10	1.33	1.51	.86	31
32	266.30	267.00	264.90	1.02	1.07	.98	32
33	265.80	266.40	264.30	1.06	1.23	.96	33
34	265.90	267.60	265.30	1.11	1.24	1.03	34
35	267.90	268.90	267.00	1.07	1.15	.98	35
36	273.60	284.30	253.70	1.69	1.93	.61	36
37	272.30	273.20	263.90	1.56	1.82	1.02	37
38	264.80	265.40	261.80	.97	1.13	.90	38
39	262.80	266.00	262.20	.97	1.10	.92	39
40	257.70	269.80	255.30	1.04	1.16	.87	40
41	263.10	264.30	262.60	1.01	1.10	.95	41
42	269.80	271.40	265.10	1.00	1.17	.93	42

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 116

TOW 20800 TCG 22.4 FWD FLIGHT DATE 08/02/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	.15	.47	-.01	.70	1.74	-.84	2
3	.15	.31	-.01	.66	1.74	-.42	3
4	-.01	.47	-.18	.83	1.99	-1.18	4
5	.15	.47	-.01	.62	1.99	-.59	5
6	.31	.47	-.01	.53	1.74	-.84	6
7	.31	.47	-.18	.33	1.99	-.67	7
8	.15	.31	-.01	.83	1.49	-.17	8
9	.07	.15	-.01	.49	1.58	-.17	9
10	.07	.31	-.01	.58	1.49	-.17	10
11	.15	.31	-.01	.70	1.49	-.26	11
12	-.01	.31	-.18	.45	1.83	-.59	12
13	.15	.31	-.01	.70	1.66	-.34	13
14	.15	.31	-.01	.49	1.91	-.67	14
15	.23	.47	-.01	.37	1.83	-.67	15
16	-.01	.15	-.18	.41	1.41	-.17	16
17	.15	.31	-.01	.62	1.49	-.17	17
18	-.01	.31	-.18	.49	1.49	-.51	18
19	.15	.31	-.01	.74	1.49	-.51	19
20	.15	.31	-.01	.62	1.49	-.51	20
21	.07	.31	-.18	.54	1.58	-.26	21
22	-.01	.31	-.18	.66	1.58	-.34	22
23	.07	.31	-.18	.58	1.58	-.34	23
24	-.01	.31	-.18	.66	1.66	-.42	24
25	.07	.15	-.01	.74	1.49	-.17	25
26	.07	.15	-.01	.74	1.49	-.34	26
27	.07	.15	-.01	.58	1.41	-.34	27
28	.15	.31	-.01	.45	1.49	-.51	28
29	.07	.31	-.01	.66	1.49	-.09	29
30	.07	.47	-.18	.24	1.66	-.93	30
31	-.01	.31	-.18	.66	1.83	-.51	31
32	.15	.31	-.01	.33	1.58	-.42	32
33	.07	.31	-.18	.49	1.49	-.51	33
34	.07	.15	-.01	.74	1.49	-.59	34
35	.07	.15	-.01	.70	1.49	-.34	35
36	-.01	.31	-.18	.58	1.74	-.42	36
37	.15	.31	-.01	.45	1.58	-.17	37
38	-.01	.31	-.18	.53	1.58	-.42	38
39	-.01	.31	-.18	.62	1.49	-.59	39
40	.15	.31	-.01	.74	1.58	-.51	40
41	.15	.31	-.01	.66	1.58	-.42	41
42	-.01	.31	-.18	.41	1.58	-.84	42



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 117  
TGGW 24300 TCGG 4.4 FWD FLIGHT DATE 08/04/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
1	*****	*****	*****	*****	*****	*****	1
2	284400.00	13190.00	312000.00	270400.00	-1632.00	37050.00	2
17	313800.00	53590.00	398000.00	84060.00	2386.00	46420.00	17
18	284000.00	15310.00	306900.00	267800.00	3725.00	46870.00	18
19	303100.00	18290.00	340500.00	284800.00	12210.00	48210.00	19
20	275900.00	37010.00	347800.00	238900.00	-4756.00	41960.00	20
21	293300.00	21260.00	343500.00	266100.00	-2528.00	95970.00	21
23	81510.00	7656.00	94270.00	73010.00	18000.00	97760.00	23
24	98540.00	7656.00	106200.00	78960.00	6400.00	78110.00	24
25	92580.00	5952.00	105300.00	78110.00	-1632.00	54900.00	25
26	89590.00	5528.00	95980.00	84060.00	4172.00	31250.00	26
27	102800.00	11900.00	126800.00	79810.00	1045.00	66510.00	27
28	272500.00	30200.00	352900.00	172500.00	9072.00	76340.00	28
29	221000.00	32330.00	347300.00	65360.00	9520.00	88380.00	29
30	300100.00	23820.00	375900.00	181900.00	8189.00	43300.00	30
32	345700.00	30200.00	388600.00	272100.00	3725.00	47760.00	32
33	375000.00	30620.00	340100.00	272900.00	-4310.00	50440.00	33
34	247800.00	38700.00	358000.00	69600.00	1036.00	82580.00	34
35	232900.00	42540.00	319700.00	52600.00	7736.00	86600.00	35
36	241000.00	33400.00	312900.00	34730.00	-752.00	79010.00	36
37	242700.00	42960.00	296700.00	36440.00	1940.00	45980.00	37

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FLIGHT LOADS

CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 117  
TOWW 24300 TBCG 4.4 FWD FLIGHT DATE 08/04/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	*****	*****	*****	*****	*****	*****	1
2	2600.00	40910.00	2689.00	46250.00	2131.00	48870.00	2
17	5781.00	45910.00	1791.00	52540.00	4332.00	56350.00	17
18	9872.00	49090.00	3139.00	55680.00	7407.00	59430.00	18
19	11690.00	46360.00	20200.00	59270.00	10050.00	55900.00	19
20	5327.00	45450.00	-8089.00	50740.00	2571.00	56350.00	20
21	-8776.00	97720.00	-4952.00	109600.00	-19010.00	111400.00	21
23	1232.00	89540.00	-5400.00	110000.00	-1840.00	93330.00	23
24	-8312.00	75450.00	-912.00	83070.00	-14600.00	78810.00	24
25	2145.00	55000.00	-7190.00	57930.00	-4474.00	59870.00	25
26	-2855.00	30910.00	-2251.00	35030.00	-10640.00	34340.00	26
27	-4722.00	65910.00	-4952.00	70950.00	-13280.00	70440.00	27
28	-1952.00	78180.00	7616.00	93410.00	-13290.00	95980.00	28
29	4688.00	90450.00	8968.00	100100.00	-3600.00	107400.00	29
30	7599.00	46810.00	5833.00	55680.00	4772.00	58550.00	30
32	5781.00	50450.00	-8537.00	53890.00	-1392.00	56790.00	32
33	-2855.00	50000.00	-10340.00	66460.00	-14170.00	64280.00	33
34	14230.00	79080.00	-6752.00	95200.00	-5360.00	95970.00	34
35	12590.00	87260.00	-9440.00	101500.00	8288.00	97300.00	35
36	7592.00	75900.00	-13490.00	92960.00	-1840.00	95090.00	36
37	15780.00	49540.00	-454.00	58380.00	11370.00	58100.00	37

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 117  
TORGW 24300 TBCG 4.4 FWD FLIGHT DATE 08/04/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	#####	#####	#####	#####	#####	#####	1
2	285800.00	9504.00	296200.00	265900.00	-2522.00	33890.00	2
17	350600.00	50100.00	400700.00	83660.00	-2128.00	35080.00	17
18	263800.00	7344.00	273700.00	248700.00	631.00	29950.00	18
19	285400.00	22390.00	324700.00	256400.00	-157.50	37050.00	19
20	323400.00	40170.00	363600.00	253000.00	4572.00	37050.00	20
21	291000.00	19000.00	325000.00	254700.00	15600.00	115900.00	21
23	82370.00	5616.00	96620.00	76750.00	2996.00	26800.00	23
24	84960.00	5616.00	94900.00	68990.00	2601.00	15370.00	24
25	81080.00	7768.00	95760.00	69860.00	5360.00	33890.00	25
26	81500.00	4752.00	87980.00	74180.00	-945.50	10250.00	26
27	99220.00	12960.00	113900.00	63810.00	4178.00	29560.00	27
28	200300.00	19870.00	324200.00	169200.00	7331.00	39020.00	28
29	253800.00	31960.00	351500.00	72450.00	2602.00	35080.00	29
30	285400.00	22020.00	325500.00	153600.00	6935.00	67790.00	30
32	246900.00	25910.00	278900.00	134600.00	3390.00	61090.00	32
33	241300.00	29800.00	271100.00	147600.00	8907.00	50050.00	33
34	345000.00	25490.00	395500.00	177000.00	-560.00	80000.00	34
35	359700.00	28070.00	400700.00	206300.00	6536.00	91830.00	35
36	328100.00	17280.00	348000.00	139800.00	-4496.00	73700.00	36
37	222300.00	30660.00	259900.00	44810.00	9301.00	44140.00	37



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 117  
TGW 24300 TBCG 4.4 FWD FLIGHT DATE 08/04/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	*****						1
2	-5609.00	35720.00	-2932.00	33190.00	-7043.00	33820.00	2
17	-3602.00	36120.00	-13250.00	35430.00	173.50	34730.00	17
18	-3602.00	29700.00	-7866.00	29150.00	2429.00	27060.00	18
19	-12830.00	38930.00	-10110.00	36780.00	-8395.00	36980.00	19
20	-391.00	36120.00	-4278.00	39020.00	7840.00	36980.00	20
21	-23680.00	116400.00	4688.00	98220.00	-7952.00	95150.00	21
23	2017.00	25680.00	-6969.00	22880.00	12350.00	19840.00	23
24	3221.00	14050.00	-7418.00	14350.00	11900.00	13080.00	24
25	10.00	33310.00	-3381.00	26460.00	8743.00	27960.00	25
26	411.50	9632.00	-11900.00	12560.00	9194.00	9471.00	26
27	1214.00	29700.00	-4727.00	25120.00	10550.00	25260.00	27
28	-4405.00	39330.00	-689.50	34540.00	-277.50	36980.00	28
29	-6411.00	35720.00	-6969.00	33640.00	-2533.00	36530.00	29
30	4819.00	64610.00	-4279.00	61450.00	12800.00	56370.00	30
32	2418.00	60600.00	-7866.00	51580.00	8743.00	50510.00	32
33	-6411.00	48560.00	-3829.00	44850.00	4232.00	44200.00	33
34	3616.00	84270.00	-10560.00	74010.00	1064.00	80730.00	34
35	5216.00	97120.00	-11910.00	87020.00	12340.00	39290.00	35
36	8432.00	76260.00	-17290.00	69080.00	15350.00	71250.00	36
37	4826.00	46960.00	656.00	38570.00	15060.00	41490.00	37

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 117  
TCGN 24300 TCGG 4.4 FWD FLIGHT DATE 08/04/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	#####						1
2	264.10	264.40	263.90	1.01	1.02	.98	2
17	263.70	272.60	257.50	.86	1.17	.76	17
18	264.70	264.90	264.10	1.00	1.02	.97	18
19	263.90	264.60	263.50	1.01	1.03	.98	19
20	264.60	264.90	263.70	1.01	1.02	.97	20
21	264.70	264.90	263.50	.99	1.02	.97	21
23	264.30	264.90	264.10	1.01	1.03	.97	23
24	264.20	264.60	264.10	1.00	1.02	.97	24
25	264.30	264.60	263.90	.99	1.03	.96	25
26	264.20	264.40	264.10	1.00	1.02	.98	26
27	264.10	264.60	263.50	1.00	1.03	.96	27
28	264.10	266.00	263.10	.96	1.06	.93	28
29	264.80	269.10	259.90	1.03	1.10	.92	29
30	264.70	266.40	263.70	1.01	1.04	.94	30
32	264.80	265.80	263.30	1.00	1.04	.95	32
33	264.20	264.90	263.50	1.01	1.05	.95	33
34	263.30	265.60	261.80	1.05	1.08	.95	34
35	263.50	264.90	261.80	1.01	1.07	.97	35
36	264.30	266.60	260.90	1.01	1.07	.95	36
37	272.10	274.80	264.10	1.04	1.31	.85	37

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 117  
TGW 24300 TCG 4.4 FWD FLIGHT DATE 08/04/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	*****	*****	*****	*****	*****	*****	1
2	-.76	.30	-1.33	5.09	5.65	4.46	2
17	1.03	1.93	-.03	4.75	5.65	3.18	17
18	.38	.79	-.03	5.09	5.48	4.29	18
19	-2.79	.14	-3.28	5.22	5.56	3.78	19
20	-.60	-.19	-1.33	4.03	5.56	3.35	20
21	-.43	.79	-1.49	4.88	7.43	4.03	21
23	.46	2.25	.14	3.14	3.69	2.84	23
24	.87	1.93	-1.49	3.31	3.95	3.01	24
25	-.76	2.90	-1.49	1.83	6.41	1.66	25
26	.79	1.11	.14	5.31	5.65	4.88	26
27	-1.82	-.19	-2.14	4.46	4.88	3.95	27
28	1.84	5.83	-.52	5.35	6.58	3.01	28
29	1.68	5.83	-17.61	3.35	7.77	2.08	29
30	-3.85	.14	-4.91	5.52	7.68	3.18	30
32	.79	4.53	-1.82	9.04	9.72	1.06	32
33	-.52	1.76	-1.17	-.76	4.20	-4.11	33
34	-.92	.62	-1.98	5.65	10.82	4.46	34
35	1.60	3.72	-.84	8.02	11.33	4.97	35
36	.22	2.58	-1.33	10.10	12.52	6.58	36
37	-.43	.95	-1.82	3.61	4.80	3.18	37



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119  
TGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	273200.00	16580.00	312800.00	223500.00	-7072.00	93420.00	2
3	195400.00	10200.00	206500.00	181000.00	-3048.00	89400.00	3
5	252800.00	15730.00	274500.00	234500.00	-4840.00	96550.00	5
6	286000.00	17430.00	308500.00	262600.00	-368.00	91180.00	6
7	302100.00	21680.00	346800.00	280400.00	520.00	93860.00	7
8	303400.00	23810.00	347600.00	265200.00	8568.00	91190.00	8
9	189100.00	12330.00	210700.00	169100.00	-7976.00	81800.00	9
10	181000.00	11900.00	194600.00	162300.00	-5288.00	80010.00	10
11	181400.00	12330.00	210700.00	169100.00	-2608.00	78220.00	11
12	201000.00	12320.00	220100.00	178400.00	-3056.00	79570.00	12
13	191600.00	18280.00	239600.00	170800.00	-2608.00	85380.00	13
15	120200.00	10620.00	144800.00	107900.00	72.00	89850.00	15
16	90860.00	10200.00	104500.00	75550.00	-2160.00	80460.00	16
17	33060.00	11050.00	70460.00	17750.00	-376.00	68840.00	17
18	41130.00	14030.00	126600.00	22000.00	-3504.00	85380.00	18
19	200500.00	28060.00	303400.00	172500.00	-4840.00	75990.00	19
20	252800.00	31880.00	306000.00	198000.00	2752.00	91630.00	20
21	204500.00	24660.00	287200.00	128300.00	7680.00	100100.00	21
22	201800.00	30180.00	286400.00	139300.00	4544.00	92530.00	22
23	158900.00	14460.00	231100.00	127400.00	-3496.00	88950.00	23
24	207800.00	14030.00	256600.00	91710.00	-5288.00	91640.00	24
25	187800.00	22100.00	247300.00	115500.00	-4392.00	97900.00	25
26	247300.00	20400.00	289800.00	144400.00	-11540.00	96100.00	26
27	237900.00	34010.00	299200.00	107900.00	-7072.00	91630.00	27
28	172100.00	18280.00	246400.00	91710.00	-10660.00	91630.00	28
29	218800.00	50580.00	270300.00	146100.00	-9760.00	98780.00	29
30	231100.00	47610.00	291500.00	152900.00	-4392.00	103300.00	30
31	278300.00	25080.00	319600.00	195400.00	-11550.00	106800.00	31
32	301300.00	24230.00	334900.00	216700.00	-7976.00	104200.00	32
33	259600.00	24230.00	327200.00	209000.00	-6184.00	104200.00	33
34	259200.00	25500.00	301700.00	180100.00	-9312.00	104600.00	34
35	244400.00	15300.00	272000.00	222600.00	-5736.00	90300.00	35
36	248100.00	17860.00	274500.00	226900.00	80.00	92530.00	36
37	153400.00	18280.00	210700.00	124000.00	-8864.00	109500.00	37
38	321300.00	42510.00	363800.00	204800.00	-7080.00	110400.00	38
39	229400.00	17010.00	242600.00	212400.00	7232.00	93420.00	39
40	225200.00	28060.00	255800.00	191200.00	-2160.00	88510.00	40
41	240900.00	26780.00	247700.00	190300.00	14820.00	95660.00	41
42	293600.00	23380.00	317000.00	264300.00	2312.00	94760.00	42
43	294500.00	27630.00	322300.00	244800.00	-1712.00	88060.00	43
44	289800.00	32300.00	322100.00	256600.00	2760.00	104200.00	44
45	289800.00	34860.00	340000.00	243000.00	3648.00	90740.00	45
46	-27950.00	8289.00	-14560.00	-36230.00	-5730.00	66160.00	46
47	-20930.00	11480.00	-5203.00	-36230.00	-8416.00	75980.00	47
48	-20720.00	15520.00	33910.00	-36230.00	-11100.00	78670.00	48
49	-13700.00	15300.00	5000.00	-36230.00	-10200.00	83140.00	49
50	-23480.00	9778.00	749.00	-36230.00	-7520.00	99230.00	50

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119  
TGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
51	34330.00	13180.00	46210.00	-36230.00	-5736.00	99240.00	51
52	240900.00	30610.00	300900.00	21150.00	-368.00	84930.00	52

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119

TGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	8192.00	92240.00	-16800.00	107500.00	-9176.00	113100.00	2
3	8648.00	90870.00	-16800.00	104800.00	-4776.00	109600.00	3
5	9096.00	93140.00	-24900.00	118300.00	-4336.00	114400.00	5
6	11380.00	88140.00	-21300.00	115600.00	1384.00	107800.00	6
7	11370.00	89960.00	-18590.00	114700.00	2704.00	110000.00	7
8	5920.00	92690.00	1640.00	108800.00	3584.00	107400.00	8
9	5464.00	87690.00	-26700.00	103000.00	-6536.00	105200.00	9
10	7744.00	83600.00	-18600.00	93990.00	-4336.00	101200.00	10
11	8648.00	82700.00	-14100.00	92190.00	-3456.00	101200.00	11
12	10920.00	82230.00	-18600.00	94890.00	-1696.00	101200.00	12
13	17280.00	83150.00	-16800.00	101200.00	2704.00	103800.00	13
15	12280.00	87240.00	-13200.00	106600.00	944.00	107400.00	15
16	11830.00	79510.00	-14550.00	94440.00	64.00	97680.00	16
17	8653.00	69060.00	-14550.00	81850.00	-3016.00	85800.00	17
21	19100.00	94060.00	-1960.00	120500.00	17220.00	110400.00	21
22	20920.00	92230.00	-17700.00	112900.00	12820.00	114800.00	22
23	12740.00	93140.00	-20400.00	109300.00	2264.00	113100.00	23
24	12280.00	94500.00	-27140.00	115100.00	1384.00	114000.00	24
25	12730.00	96780.00	-13650.00	118700.00	-6536.00	125400.00	25
26	9096.00	101300.00	-29840.00	118700.00	-3456.00	125000.00	26
27	11380.00	96320.00	-22640.00	109700.00	1384.00	117500.00	27
28	10020.00	98590.00	-32980.00	115600.00	-3896.00	122800.00	28
29	-10430.00	106300.00	-19940.00	124100.00	-28100.00	131100.00	29
30	928.00	107700.00	-9152.00	128600.00	-25900.00	131600.00	30
31	5472.00	107700.00	-25790.00	128200.00	-9176.00	133300.00	31
32	4104.00	103600.00	-23540.00	123200.00	-11380.00	125800.00	32
33	-440.00	108100.00	-22640.00	126800.00	-15340.00	132400.00	33
34	5008.00	105400.00	-20390.00	125500.00	-6096.00	129400.00	34
35	5920.00	92690.00	-25340.00	107900.00	-5656.00	113100.00	35
36	9552.00	88140.00	-11850.00	108800.00	6664.00	109600.00	36
37	2288.00	110900.00	-22640.00	131300.00	-17540.00	139000.00	37
38	-1352.00	109000.00	-13200.00	130900.00	-17100.00	127200.00	38
39	8648.00	91780.00	2536.00	108800.00	-2576.00	116200.00	39
40	8648.00	89050.00	-7808.00	106600.00	-5656.00	108700.00	40
41	19100.00	93140.00	10630.00	110600.00	-12260.00	112600.00	41
42	16380.00	87690.00	-2408.00	111100.00	12820.00	107800.00	42
43	12740.00	84050.00	-14550.00	111500.00	9744.00	105600.00	43
44	9560.00	99050.00	-7800.00	125500.00	2264.00	120100.00	44
45	24550.00	85870.00	-4208.00	108400.00	22060.00	106500.00	45
46	7743.00	69060.00	-22190.00	78700.00	-6536.00	87560.00	46
47	8192.00	81330.00	-24900.00	93090.00	-5656.00	104300.00	47
48	11830.00	87690.00	-22650.00	98940.00	-2576.00	110900.00	48
49	2744.00	91320.00	-25340.00	105200.00	-11820.00	115700.00	49
50	-440.00	101800.00	-22650.00	124100.00	-19740.00	124500.00	50



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119  
TOGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
51	14550.00	95860.00	-23540.00	118700.00	1384.00	121000.00	51
52	6376.00	86780.00	-3304.00	98490.00	7544.00	98120.00	52

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119

TGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	335900.00	15690.00	363400.00	310000.00	7632.00	89810.00	2
3	254900.00	11880.00	272700.00	241300.00	4872.00	89420.00	3
5	284100.00	14840.00	304900.00	269300.00	7640.00	97690.00	5
6	309200.00	16970.00	330400.00	284600.00	11180.00	98870.00	6
7	336300.00	21210.00	365100.00	310800.00	15910.00	106000.00	7
8	324500.00	32660.00	359200.00	293900.00	14730.00	123700.00	8
9	258700.00	11460.00	283700.00	243800.00	2520.00	83110.00	9
10	245100.00	10180.00	280300.00	248900.00	2512.00	74450.00	10
11	280700.00	8056.00	293900.00	262500.00	2512.00	70510.00	11
12	304500.00	9752.00	319300.00	290500.00	152.00	72870.00	12
13	312600.00	11880.00	338800.00	294700.00	544.00	70900.00	13
15	193400.00	9760.00	206500.00	156500.00	1328.00	89810.00	15
16	142900.00	7632.00	143100.00	131000.00	-1816.00	78780.00	16
17	75060.00	10180.00	109000.00	62340.00	-6938.00	71300.00	17
18	107300.00	11020.00	208200.00	86080.00	5272.00	85860.00	18
19	332900.00	18660.00	383300.00	287100.00	9608.00	93350.00	19
20	338400.00	28420.00	396500.00	287100.00	-1424.00	76020.00	20
21	340100.00	25870.00	396500.00	273500.00	1336.00	104000.00	21
22	332100.00	31380.00	396500.00	238800.00	2512.00	88620.00	22
23	287100.00	17810.00	319300.00	213300.00	4880.00	87060.00	23
24	266700.00	17820.00	335500.00	174300.00	5272.00	88230.00	24
25	305300.00	31810.00	348500.00	248900.00	-2216.00	125700.00	25
26	335900.00	29260.00	378700.00	201400.00	2120.00	126100.00	26
27	274500.00	29260.00	328700.00	184500.00	-248.00	91380.00	27
28	248100.00	17820.00	280300.00	215000.00	-632.00	96500.00	28
29	292200.00	40220.00	375300.00	187900.00	-2208.00	100400.00	29
30	319300.00	69560.00	394800.00	204000.00	-4176.00	109500.00	30
31	324500.00	23330.00	359200.00	249800.00	25750.00	133100.00	31
32	328200.00	25020.00	355800.00	248100.00	12760.00	142200.00	32
33	325700.00	30110.00	376200.00	256600.00	19460.00	155200.00	33
34	298600.00	21630.00	329500.00	212500.00	9608.00	129600.00	34
35	249700.00	17380.00	293900.00	249800.00	4488.00	100800.00	35
36	271400.00	15690.00	287100.00	248900.00	14730.00	93750.00	36
37	291400.00	33080.00	324400.00	215900.00	20630.00	166600.00	37
38	340100.00	30110.00	373600.00	226000.00	26540.00	134700.00	38
39	244600.00	15700.00	286300.00	241300.00	14340.00	97300.00	39
40	248100.00	30540.00	278600.00	210800.00	12750.00	94930.00	40
41	239200.00	30960.00	287100.00	208200.00	-6544.00	100000.00	41
42	303200.00	21210.00	324400.00	266800.00	9608.00	92570.00	42
43	307500.00	22900.00	342200.00	266800.00	13940.00	90590.00	43
44	299400.00	41980.00	341400.00	257400.00	14340.00	97300.00	44
45	311700.00	36470.00	359200.00	253200.00	23000.00	93350.00	45
46	23320.00	12720.00	36040.00	2115.00	-12060.00	70120.00	46
47	17810.00	16540.00	47920.00	-2126.00	-12850.00	79570.00	47
48	26290.00	14840.00	75900.00	419.00	-11660.00	81540.00	48
49	33070.00	27570.00	46580.00	5508.00	-9696.00	85090.00	49
50	37310.00	29260.00	99650.00	-2974.00	8424.00	94540.00	50

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119

TNGW 24300 TOCG 13.2 FWD . FLIGHT DATE 08/05/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
51	119200.00	20360.00	179400.00	-2126.00	-10090.00	75240.00	51
52	306600.00	31380.00	396500.00	93710.00	-1424.00	81540.00	52



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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119  
TORGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-4784.00	91280.00	-9984.00	82820.00	1968.00	82460.00	2
3	-1584.00	94480.00	-9984.00	81920.00	6024.00	85620.00	3
5	-4376.00	100500.00	-5504.00	88190.00	1968.00	93280.00	5
6	-5176.00	99690.00	-144.00	87300.00	-280.00	91930.00	6
7	-9184.00	106900.00	4344.00	94460.00	-5240.00	97780.00	7
8	-776.00	119300.00	-1920.00	109700.00	-2992.00	101800.00	8
9	-2776.00	88470.00	-7752.00	77000.00	2424.00	81110.00	9
10	424.00	77270.00	-10880.00	69390.00	7832.00	70300.00	10
11	2024.00	72460.00	-9982.00	65810.00	9179.00	65330.00	11
12	4032.00	73660.00	-12670.00	69390.00	9632.00	69390.00	12
13	4432.00	70860.00	-11330.00	68050.00	8283.00	67140.00	13
15	-3184.00	92080.00	-10880.00	82820.00	4216.00	83820.00	15
16	1624.00	80870.00	-18040.00	71190.00	10080.00	78860.00	16
17	8832.00	74460.00	-19380.00	70730.00	18200.00	70750.00	17
18	-3184.00	92080.00	-6856.00	80580.00	6024.00	85620.00	18
19	2424.00	96090.00	1208.00	84170.00	8280.00	88780.00	19
20	-7584.00	78860.00	-9088.00	72080.00	-7496.00	77510.00	20
21	-10390.00	100100.00	-9096.00	96250.00	-5248.00	101400.00	21
22	424.00	97290.00	-9984.00	84610.00	6480.00	93280.00	22
23	-3176.00	86470.00	-3720.00	81030.00	1512.00	81110.00	23
24	-3584.00	90080.00	-3272.00	81480.00	-6592.00	82910.00	24
25	-9984.00	134900.00	-7752.00	120000.00	-6144.00	128400.00	25
26	-15190.00	125700.00	-5512.00	122200.00	-14260.00	117600.00	26
27	-10780.00	95680.00	-7744.00	86850.00	-6144.00	88770.00	27
28	-5576.00	101700.00	-9088.00	90880.00	1072.00	95980.00	28
29	-12790.00	97690.00	-7296.00	90880.00	-5696.00	87420.00	29
30	-14790.00	104100.00	-10440.00	99380.00	-15610.00	91030.00	30
31	-14790.00	124100.00	-1032.00	120400.00	-11100.00	112700.00	31
32	-14790.00	133300.00	-3272.00	122700.00	-14700.00	114500.00	32
33	424.00	156500.00	-5504.00	132100.00	-288.00	134300.00	33
34	-8784.00	124100.00	-1032.00	120400.00	-12900.00	112700.00	34
35	-4776.00	103300.00	-3712.00	89090.00	-1640.00	95080.00	35
36	-4384.00	91680.00	2096.00	85060.00	1064.00	84260.00	36
37	-14790.00	160100.00	-4616.00	144600.00	-21460.00	151900.00	37
38	-28000.00	126500.00	5232.00	105200.00	-21460.00	107700.00	38
39	-8384.00	96480.00	5232.00	93570.00	-7496.00	90120.00	39
40	-3984.00	93680.00	4336.00	85500.00	2416.00	84720.00	40
41	-5976.00	100500.00	-20290.00	88640.00	-3888.00	93730.00	41
42	-2384.00	94480.00	6128.00	86400.00	-280.00	89220.00	42
43	8432.00	95680.00	6128.00	83710.00	13240.00	89220.00	43
44	-1576.00	100900.00	7024.00	89090.00	2424.00	89220.00	44
45	-26400.00	95280.00	19570.00	81030.00	10980.00	86070.00	45
46	11240.00	68060.00	-26550.00	76110.00	22250.00	70290.00	46
47	9232.00	74860.00	-26550.00	83270.00	17300.00	77060.00	47
48	5624.00	79270.00	-24310.00	82830.00	12780.00	77950.00	48
49	4432.00	77260.00	-28330.00	84160.00	11430.00	77510.00	49
50	-11180.00	94480.00	-1928.00	95350.00	2416.00	96430.00	50

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119

TORGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
51	8432.00	75660.00	-9982.00	68500.00	8280.00	68040.00	51
52	4824.00	79270.00	-11780.00	74770.00	8272.00	74350.00	52

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLIP FLIGHT 119  
TSGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.70	264.90	263.70	1.04	1.08	.94	2
3	264.50	264.60	263.90	1.03	1.05	1.00	3
5	264.40	264.60	263.70	1.05	1.06	.99	5
6	263.70	264.40	263.50	.98	1.02	.97	6
7	263.90	264.10	263.30	.98	1.03	.93	7
8	264.30	264.60	263.50	1.06	1.08	.92	8
9	264.40	264.60	263.30	1.01	1.05	.96	9
10	263.80	264.30	263.70	.99	1.02	.98	10
11	264.40	264.60	263.90	.95	1.00	.94	11
12	264.00	264.40	263.90	1.01	1.03	.99	12
13	264.30	264.60	263.90	1.01	1.02	.97	13
15	264.70	266.00	264.10	1.05	1.10	.93	15
16	264.80	265.10	263.10	1.01	1.06	.97	16
17	264.80	267.60	263.90	1.00	1.04	.96	17
18	263.10	265.30	260.90	1.20	1.24	1.10	18
19	264.50	265.80	263.10	.99	1.21	.92	19
20	264.00	264.60	263.30	1.06	1.23	1.03	20
21	263.40	265.40	262.60	1.20	1.34	.98	21
22	263.50	266.60	262.60	1.10	1.24	1.01	22
23	264.80	265.80	262.60	1.16	1.24	.97	23
24	264.60	265.60	262.00	1.19	1.26	.98	24
25	264.80	265.80	262.20	1.06	1.48	1.00	25
26	263.10	267.80	262.20	1.06	1.43	.99	26
27	266.70	267.20	262.80	.98	1.26	.76	27
28	266.40	267.90	261.80	1.14	1.31	.80	28
29	267.10	271.40	262.20	1.20	1.47	.91	29
30	267.30	271.40	262.60	1.20	1.51	.96	30
31	263.80	265.30	263.10	1.06	1.23	.95	31
32	264.20	265.30	262.80	1.33	1.63	.92	32
33	264.90	265.30	262.40	1.17	1.31	.93	33
34	264.80	265.40	262.40	1.01	1.32	.98	34
35	264.70	265.10	263.50	1.05	1.07	.99	35
36	264.80	265.10	264.10	1.03	1.08	1.00	36
37	266.20	267.00	262.80	1.06	1.41	.94	37
38	266.20	270.10	262.00	1.12	1.41	.96	38
39	264.70	265.10	263.30	.98	1.06	.95	39
40	264.20	264.60	263.70	.96	1.05	.93	40
41	262.80	266.00	262.20	.94	1.08	.85	41
42	264.30	264.40	263.90	1.01	1.04	.99	42
43	263.70	264.30	263.50	.95	1.02	.93	43
44	263.90	265.30	263.30	1.00	1.05	.93	44
45	264.10	264.40	263.50	.95	1.04	.89	45
46	282.20	286.70	272.40	.95	1.11	.83	46
47	271.10	289.70	267.00	1.05	1.35	.80	47
48	267.10	284.50	259.90	1.28	1.41	.85	48
49	271.50	272.60	265.60	1.28	1.48	.82	49
50	286.70	296.60	263.10	1.67	1.30	.76	50



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119

TOW 24400 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
51	271.10	295.80	256.80	1.48	1.61	.94	51
52	260.40	264.90	259.40	.98	1.12	.94	52

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119  
TOGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	1.20	3.25	-1.18	-.56	.33	-4.09	2
3	-.36	-.20	-1.35	-1.28	-.69	-1.96	3
5	.71	1.28	.46	-3.37	-1.96	-4.35	5
6	.13	1.28	-.69	-5.15	-4.01	-5.71	6
7	-1.18	.30	-1.51	-5.07	-4.35	-6.98	7
8	1.53	2.43	-.36	-4.56	-2.64	-6.56	8
9	-.03	.13	-.85	-.35	-.18	-2.22	9
10	-.03	.46	-.36	-.69	-.43	-1.45	10
11	-.03	.13	-.69	-1.45	.33	-1.88	11
12	-.03	.30	-.36	.97	1.52	-.35	12
13	-.36	.30	-1.18	2.03	2.63	-.35	13
15	-.11	.95	-.85	-3.49	-2.39	-4.35	15
16	.13	1.12	-.03	-2.22	-1.37	-2.64	16
17	-.11	.46	-.52	-1.84	-1.28	-3.07	17
18	.46	.95	.13	1.61	2.46	1.27	18
19	-19.73	.30	-34.51	2.97	15.73	1.35	19
20	9.24	32.64	-.69	9.52	11.56	-1.79	20
21	-21.95	-3.15	-46.66	3.31	11.31	-.86	21
22	7.52	31.82	-4.96	-2.22	7.99	-4.43	22
23	10.64	31.98	-1.02	.76	4.59	-1.88	23
24	-8.40	3.42	-35.49	.21	3.56	-4.35	24
25	-14.81	1.45	-45.67	1.31	4.93	-1.28	25
26	23.77	42.98	-.03	-1.20	1.61	-5.96	26
27	-.44	1.28	-.85	-2.90	6.80	-13.11	27
28	-1.02	-.03	-1.84	-7.83	9.35	-16.43	28
29	.21	.95	-.52	-.82	-.18	-3.07	29
30	.21	.79	-.20	-.82	-.35	-2.90	30
31	-2.41	6.37	-29.91	1.10	2.80	-4.35	31
32	9.00	32.64	-3.64	-4.18	.67	-6.22	32
33	13.51	34.11	-1.84	-3.20	1.01	-8.94	33
34	-7.99	5.71	-37.30	-4.18	.33	-6.13	34
35	-3.07	-1.84	-3.81	-4.01	-3.49	-4.26	35
36	2.35	2.60	1.77	-5.58	-3.75	-5.79	36
37	-4.96	-3.81	-6.43	6.84	10.63	3.99	37
38	.46	.95	-.85	-5.32	-4.26	-5.79	38
39	-2.25	-.85	-3.15	-4.43	-3.84	-4.86	39
40	.46	1.12	.13	-5.32	-4.09	-6.05	40
41	-.69	-.20	-1.35	-3.88	-3.15	-5.96	41
42	-.52	1.28	-1.35	-5.24	-4.52	-5.71	42
43	-.36	.95	-.85	-5.24	-4.60	-5.71	43
44	1.61	2.27	1.28	-4.52	-4.26	-5.03	44
45	.87	1.45	.30	-5.28	-4.60	-6.47	45
46	.38	.63	-1.18	1.06	2.80	-4.09	46
47	-8.40	-1.18	-30.89	.38	1.86	-5.71	47
48	15.81	39.70	6.37	-7.62	-.52	-11.58	48
49	-.36	1.12	-.52	-2.18	.42	-4.35	49
50	-1.10	.13	-3.15	-1.41	5.35	-8.43	50

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 119

TGGW 24300 TOCG 13.2 FWD FLIGHT DATE 08/05/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
51	-18.67	-1.84	-47.64	7.05	9.09	-7.83	51
52	1.69	4.89	-1.84	5.56	8.58	.33	52



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TGW 24300 TOCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	289400.00	19570.00	320800.00	263900.00	-7315.00	47400.00	2
3	277500.00	24680.00	359100.00	229800.00	-2848.00	84960.00	3
4	278700.00	15740.00	331900.00	263000.00	-8664.00	91660.00	4
5	293200.00	9784.00	312400.00	274100.00	-6872.00	86300.00	5
6	258700.00	16170.00	299600.00	239200.00	-8664.00	91660.00	6
7	282600.00	11060.00	299600.00	269800.00	-8664.00	88090.00	7
8	271900.00	14040.00	291900.00	257900.00	-6424.00	84950.00	8
9	261300.00	11910.00	275800.00	249400.00	-9560.00	88980.00	9
10	178300.00	12340.00	190700.00	162600.00	-11340.00	90770.00	10
11	162600.00	14460.00	179600.00	145600.00	-10450.00	90770.00	11
12	175400.00	9360.00	184700.00	165200.00	-3741.00	65280.00	12
13	238300.00	16170.00	255300.00	186400.00	-9560.00	77350.00	13
14	222200.00	15310.00	240900.00	201700.00	-7768.00	72890.00	14
15	171500.00	15740.00	202600.00	151500.00	-3738.00	56340.00	15
16	148600.00	11060.00	183900.00	151500.00	-1055.00	52760.00	16
17	209000.00	16590.00	232400.00	161700.00	-2844.00	53660.00	17
18	197900.00	21700.00	234900.00	163500.00	733.50	51870.00	18
19	230700.00	18720.00	256200.00	168600.00	-5527.00	69750.00	19
20	225600.00	16170.00	247700.00	192400.00	-7317.00	69760.00	20
21	194100.00	17020.00	221300.00	177100.00	5200.00	74220.00	21
22	201300.00	26800.00	230700.00	154100.00	-2398.00	65730.00	22
23	212000.00	24670.00	236600.00	171100.00	2520.00	78700.00	23
24	144000.00	30630.00	206800.00	92830.00	-10900.00	89420.00	24
25	235400.00	47220.00	282600.00	120100.00	-5088.00	84510.00	25
26	218300.00	43820.00	286800.00	131100.00	-11350.00	85400.00	26
28	208500.00	10210.00	220500.00	194100.00	-5080.00	55000.00	28
29	202200.00	14040.00	224700.00	183900.00	-1957.00	64400.00	29
30	208600.00	21270.00	232400.00	187300.00	4744.00	78250.00	30
31	194600.00	33180.00	255300.00	163500.00	-9551.00	73780.00	31
32	213600.00	24670.00	238300.00	180500.00	2960.00	85410.00	32
33	191100.00	27650.00	274900.00	149800.00	-3294.00	66630.00	33
34	206800.00	23820.00	269800.00	143000.00	-4635.00	64390.00	34
35	140100.00	28500.00	246400.00	91980.00	4311.00	60810.00	35
36	261300.00	34030.00	295300.00	176200.00	-7765.00	70200.00	36
37	249400.00	36580.00	286000.00	142200.00	-1957.00	64400.00	37
38	107700.00	12340.00	120900.00	87730.00	2969.00	48740.00	38
39	13290.00	8934.00	24980.00	-6707.00	2522.00	41140.00	39
40	-9685.00	8934.00	12010.00	-22870.00	-608.00	39800.00	40
41	125600.00	13190.00	239200.00	4354.00	-2844.00	62600.00	41
42	-30320.00	6594.00	-23720.00	-36910.00	10120.00	58570.00	42
43	-24910.00	9997.00	100.00	-36910.00	11020.00	52310.00	43
44	16690.00	14890.00	40940.00	-36910.00	-9110.00	63500.00	44
45	-24150.00	8934.00	-14360.00	-36910.00	2969.00	39800.00	45
46	-15640.00	9785.00	14560.00	-36910.00	-3739.00	61700.00	46
47	-21590.00	5318.00	-24570.00	-36910.00	12360.00	50970.00	47
48	-29890.00	7020.00	-19470.00	-36910.00	11010.00	55890.00	48
49	-19040.00	8934.00	17970.00	-36910.00	-5974.00	57680.00	49

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TGW 24300 TBCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
50	-22020.00	11910.00	14560.00	-36910.00	-14920.00	71990.00	50
51	-19890.00	10640.00	-6707.00	-36910.00	-11800.00	87640.00	51
52	-13510.00	16170.00	6907.00	-36910.00	-10000.00	82270.00	52
53	-5430.00	17440.00	32430.00	-36910.00	-9560.00	104200.00	53
54	-27130.00	5956.00	-20320.00	-36910.00	-17610.00	113100.00	54
56	142600.00	9360.00	176200.00	140500.00	-6432.00	84060.00	56
57	178300.00	10630.00	145800.00	165200.00	-6424.00	86740.00	57
59	258300.00	19140.00	292800.00	238300.00	-1960.00	85850.00	59
60	284700.00	20840.00	308100.00	248500.00	-616.00	85400.00	60
61	325500.00	25100.00	358300.00	288500.00	280.00	86300.00	61
62	374900.00	23390.00	370200.00	308900.00	2960.00	88080.00	62
63	79650.00	16590.00	141700.00	-36910.00	-1504.00	91660.00	63
64	274900.00	31480.00	329400.00	-5005.00	7432.00	87190.00	64



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TGW 24300 TCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	-8844.00	47290.00	-3071.00	58430.00	-5834.00	56360.00	2
3	10250.00	88220.00	-22860.00	111500.00	6488.00	110100.00	3
4	6152.00	91400.00	-17020.00	110100.00	4728.00	111000.00	4
5	11160.00	85500.00	-10270.00	101600.00	7808.00	104400.00	5
6	8888.00	91400.00	-12520.00	109200.00	6928.00	111400.00	6
7	9336.00	88220.00	-10260.00	104300.00	5168.00	108800.00	7
8	10250.00	86410.00	-9376.00	101600.00	6048.00	106100.00	8
9	4336.00	89580.00	-13860.00	103400.00	-560.00	109200.00	9
10	3880.00	96410.00	-19260.00	106100.00	-552.00	115400.00	10
11	5240.00	97770.00	-17010.00	106500.00	1208.00	117100.00	11
12	7976.00	61380.00	-7120.00	78660.00	4728.00	73100.00	12
13	7064.00	75940.00	-17910.00	91240.00	-1432.00	90710.00	13
14	3424.00	70480.00	-12070.00	85400.00	-2320.00	85420.00	14
15	9801.00	52300.00	-7119.00	67870.00	4734.00	65170.00	15
16	10260.00	50020.00	-6222.00	62480.00	6496.00	58130.00	16
17	8891.00	49570.00	-8472.00	63830.00	4287.00	62080.00	17
18	5708.00	50020.00	-3970.00	60230.00	3854.00	57240.00	18
19	7072.00	65940.00	-12520.00	84060.00	1200.00	83660.00	19
20	5706.00	66390.00	-9824.00	82260.00	-120.00	82340.00	20
21	5707.00	67300.00	1872.00	87650.00	20140.00	81460.00	21
22	8432.00	61840.00	-6224.00	76860.00	-3200.00	76620.00	22
23	7976.00	76860.00	6808.00	93500.00	6928.00	92910.00	23
24	4616.00	89130.00	-25560.00	109700.00	-5848.00	114500.00	24
25	16160.00	84130.00	-9824.00	101100.00	13980.00	100800.00	25
26	1152.00	77310.00	-24210.00	102900.00	-10250.00	94230.00	26
28	5708.00	52750.00	-8470.00	64730.00	-553.00	66060.00	28
29	9794.00	58650.00	-6672.00	76420.00	5608.00	73100.00	29
30	696.00	76860.00	1864.00	93940.00	-560.00	85420.00	30
31	8437.00	70940.00	-13870.00	87200.00	-552.00	89830.00	31
32	8424.00	78220.00	-3528.00	104700.00	-2320.00	97760.00	32
33	7524.00	63660.00	-10720.00	78660.00	6928.00	76180.00	33
34	8430.00	60020.00	-11620.00	76860.00	760.00	76180.00	34
35	8437.00	55480.00	1416.00	70120.00	5614.00	66050.00	35
36	12980.00	68210.00	-15220.00	82260.00	17940.00	79260.00	36
37	10710.00	68670.00	-4424.00	75960.00	12660.00	76620.00	37
38	7982.00	45930.00	-1723.00	58880.00	5615.00	55480.00	38
39	10710.00	39560.00	-6218.00	48090.00	3413.00	49760.00	39
40	11160.00	37290.00	-8915.00	46300.00	2533.00	48000.00	40
41	9342.00	60930.00	-7576.00	75510.00	2528.00	75300.00	41
42	9340.00	60020.00	3664.00	69660.00	7373.00	68690.00	42
43	7982.00	54110.00	-10720.00	61590.00	5167.00	62080.00	43
44	4798.00	68210.00	-26890.00	78660.00	-5400.00	89380.00	44
45	11170.00	36380.00	-7567.00	46750.00	6496.00	47560.00	45
46	12520.00	61380.00	-15660.00	75520.00	5168.00	79700.00	46
47	10260.00	52750.00	5916.00	60230.00	9138.00	59890.00	47
48	9345.00	57300.00	2769.00	64270.00	7374.00	66050.00	48
49	8891.00	58660.00	-20160.00	71030.00	-120.00	77060.00	49



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121

TGW 24300 TCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
50	-1576.00	77300.00	-27350.00	97990.00	-12000.00	103000.00	50
51	7976.00	93220.00	-25100.00	105600.00	-1000.00	117600.00	51
52	10250.00	82760.00	-23310.00	97540.00	760.00	105200.00	52
53	-4760.00	108700.00	-21060.00	136600.00	-16410.00	139100.00	53
54	2064.00	120000.00	-31850.00	147400.00	-9368.00	154100.00	54
56	8888.00	86860.00	-13420.00	97540.00	3400.00	103500.00	56
57	7520.00	88220.00	-11620.00	101100.00	320.00	107400.00	57
59	12530.00	84130.00	-4432.00	102000.00	8256.00	103000.00	59
60	12520.00	82310.00	-2632.00	100200.00	7808.00	100800.00	60
61	10250.00	87300.00	512.00	101600.00	14420.00	101300.00	61
62	12980.00	86400.00	1864.00	102900.00	13980.00	101700.00	62
63	8888.00	91400.00	-8472.00	108800.00	328.00	115400.00	63
64	15260.00	85940.00	4120.00	99780.00	17940.00	96880.00	64

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121

TSGW 24300 TSCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	273300.00	13650.00	305700.00	249400.00	-3167.00	29640.00	2
3	375300.00	17500.00	392800.00	303200.00	1960.00	72710.00	3
4	358600.00	12800.00	374000.00	330500.00	6704.00	86140.00	4
5	354400.00	9384.00	370600.00	338100.00	5912.00	72710.00	5
6	358200.00	14940.00	381700.00	328800.00	2360.00	74680.00	6
7	355600.00	9816.00	347200.00	344100.00	5120.00	75870.00	7
8	360800.00	8960.00	369700.00	342400.00	4337.00	68750.00	8
9	342400.00	11090.00	354400.00	327900.00	6312.00	81800.00	9
10	256700.00	10670.00	271600.00	245100.00	5912.00	84570.00	10
11	242200.00	12380.00	243900.00	229800.00	5520.00	86540.00	11
12	260900.00	9816.00	276700.00	251100.00	-795.00	40700.00	12
13	272400.00	11100.00	304000.00	257900.00	4737.00	58090.00	13
14	275400.00	8960.00	292900.00	266500.00	3552.00	58480.00	14
15	274600.00	11520.00	298900.00	262200.00	785.00	35960.00	15
16	294200.00	9816.00	305700.00	281800.00	4737.00	32800.00	16
17	319400.00	13650.00	340700.00	290400.00	7108.00	33590.00	17
18	339900.00	17920.00	368900.00	313400.00	3947.00	41490.00	18
19	279300.00	11940.00	320200.00	246800.00	-795.50	44650.00	19
20	295900.00	13220.00	314300.00	273300.00	2366.00	47020.00	20
21	275900.00	19630.00	295500.00	252800.00	-1586.00	43860.00	21
22	243500.00	28580.00	309100.00	234900.00	10270.00	40700.00	22
23	249900.00	30720.00	300600.00	233200.00	-400.00	58480.00	23
24	249800.00	24320.00	292900.00	187100.00	-4360.00	77450.00	24
25	333000.00	33280.00	346300.00	193100.00	3156.00	54140.00	25
26	310800.00	57180.00	374000.00	209300.00	9084.00	50580.00	26
28	243500.00	15780.00	282700.00	246000.00	-1981.00	48210.00	28
29	263900.00	10240.00	278400.00	249400.00	1576.00	36750.00	29
30	271200.00	15780.00	298000.00	251100.00	12250.00	51370.00	30
31	274600.00	33710.00	308300.00	223800.00	-5538.00	52560.00	31
32	240100.00	32860.00	301500.00	227200.00	13030.00	67960.00	32
33	330000.00	32860.00	381700.00	255400.00	1181.00	58480.00	33
34	315100.00	26460.00	358600.00	263100.00	4735.00	67570.00	34
35	334300.00	26880.00	377400.00	246800.00	1576.00	49390.00	35
36	333500.00	43090.00	397900.00	241700.00	2761.00	30820.00	36
37	326600.00	44800.00	397900.00	243400.00	1576.00	34380.00	37
38	182000.00	8528.00	206700.00	173500.00	1181.00	39520.00	38
39	101800.00	8536.00	111200.00	72750.00	2761.00	30820.00	39
40	91530.00	8536.00	100100.00	56550.00	4737.00	29640.00	40
41	284000.00	21760.00	340700.00	119700.00	-400.00	63230.00	41
42	50150.00	14080.00	45940.00	19850.00	7503.00	50580.00	42
43	58250.00	14500.00	72750.00	1933.00	9874.00	54530.00	43
44	44790.00	20480.00	106000.00	15590.00	2761.00	43470.00	44
45	36920.00	9387.00	59960.00	20710.00	1181.00	28450.00	45
46	81720.00	23460.00	115400.00	28390.00	4737.00	42280.00	46
47	21560.00	9387.00	48020.00	11320.00	4342.00	43470.00	47
48	34360.00	10240.00	48870.00	10470.00	5922.00	53740.00	48
49	58680.00	20050.00	81300.00	18150.00	5527.00	43070.00	49

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TGW 24300 TBCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
50	72330.00	22610.00	101800.00	30090.00	2366.00	46230.00	50
51	44180.00	15790.00	69340.00	-627.00	1176.00	79030.00	51
52	74600.00	20050.00	96660.00	16440.00	-1592.00	70730.00	52
53	85990.00	38830.00	143200.00	5347.00	-2384.00	92860.00	53
54	80440.00	31570.00	129100.00	8760.00	-9388.00	79820.00	54
56	217400.00	12380.00	231500.00	196500.00	-800.00	83380.00	56
57	225900.00	12380.00	246000.00	211000.00	1568.00	86540.00	57
59	280600.00	15780.00	301500.00	258800.00	10660.00	81410.00	59
60	285200.00	18780.00	316000.00	263900.00	10660.00	82190.00	60
61	318100.00	26030.00	350900.00	282700.00	14610.00	90100.00	61
62	324500.00	23890.00	356100.00	300600.00	12630.00	86540.00	62
63	170500.00	24320.00	270700.00	-1480.00	3144.00	81800.00	63
64	282700.00	21340.00	386800.00	65940.00	3144.00	76260.00	64



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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TSGW 24300 TSCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-8622.00	32160.00	-7271.00	30560.00	-9178.00	33020.00	2
3	-2600.00	73560.00	-1888.00	68300.00	-134.50	65590.00	3
4	-5816.00	88040.00	3504.00	79090.00	-4656.00	80060.00	4
5	-4608.00	74770.00	-1888.00	69200.00	-2847.00	68310.00	5
6	-2600.00	78390.00	-2336.00	72350.00	768.00	71920.00	6
7	-4608.00	77980.00	2608.00	70110.00	-1944.00	69210.00	7
8	-2600.00	68740.00	-980.00	63810.00	-130.50	61070.00	8
9	-6224.00	84420.00	3056.00	74140.00	-3304.00	74180.00	9
10	-4616.00	88840.00	3952.00	76850.00	-3752.00	79160.00	10
11	-8232.00	88840.00	3952.00	78640.00	-5560.00	79160.00	11
12	-2593.00	39800.00	-4575.00	44040.00	-3750.00	41160.00	12
13	-11440.00	51860.00	4862.00	57970.00	-10080.00	52920.00	13
14	-9426.00	52260.00	2616.00	58420.00	-9178.00	52920.00	14
15	-2995.00	36980.00	-6373.00	34150.00	-1036.00	34830.00	15
16	-2995.00	35370.00	-2328.00	31910.00	2583.00	33020.00	16
17	-3397.00	35780.00	368.00	33700.00	3036.00	31660.00	17
18	-2592.00	44620.00	3065.00	38200.00	321.50	38900.00	18
19	-4200.00	42210.00	-7721.00	45390.00	-1940.00	42970.00	19
20	-7014.00	42610.00	-530.50	46290.00	-5559.00	42970.00	20
21	-2191.00	52260.00	-8620.00	44490.00	-5559.00	52020.00	21
22	-4210.00	40200.00	-1879.00	41340.00	-11440.00	41620.00	22
23	-7819.00	57080.00	-6375.00	59320.00	-7821.00	55190.00	23
24	-1392.00	88430.00	-12220.00	81340.00	-1488.00	83230.00	24
25	-14260.00	56680.00	818.00	55720.00	-15060.00	55190.00	25
26	-8220.00	49440.00	5761.00	48080.00	-2845.00	49310.00	26
28	-5004.00	43820.00	-4575.00	46740.00	-1488.00	45230.00	28
29	-4201.00	34170.00	-2778.00	36850.00	-131.00	33930.00	29
30	-984.50	50250.00	15200.00	53920.00	2583.00	52020.00	30
31	-11840.00	48240.00	-9968.00	53930.00	-10080.00	46590.00	31
32	-2593.00	61500.00	8001.00	69200.00	-8275.00	61070.00	32
33	-2593.00	57480.00	-979.50	57520.00	321.50	54280.00	33
34	1428.00	58290.00	-2785.00	64720.00	-3750.00	53830.00	34
35	-2994.00	45830.00	-3227.00	48080.00	-6916.00	45240.00	35
36	-5005.00	34970.00	3964.00	29210.00	773.50	32120.00	36
37	-2995.00	36980.00	-4575.00	29660.00	321.50	36190.00	37
38	-1789.00	34970.00	-4575.00	38650.00	5298.00	34830.00	38
39	-582.50	28940.00	-4126.00	32810.00	7107.00	28500.00	39
40	-4201.00	28540.00	-4126.00	31010.00	9369.00	27140.00	40
41	1026.00	57080.00	-2778.00	58420.00	8464.00	50660.00	41
42	-3799.00	54670.00	-6822.00	42690.00	5750.00	44330.00	42
43	-5809.00	58290.00	-81.00	43140.00	5750.00	47040.00	43
44	-1386.00	45830.00	-5923.00	37300.00	10730.00	37540.00	44
45	-5005.00	30150.00	-5923.00	26510.00	5298.00	26690.00	45
46	-2191.00	40200.00	368.50	39100.00	7559.00	35280.00	46
47	-7014.00	46630.00	-3676.00	35950.00	5297.00	36640.00	47
48	-3799.00	56280.00	-4575.00	44940.00	5750.00	45230.00	48
49	-7014.00	47430.00	-4575.00	35050.00	5298.00	37540.00	49

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TGW 24300 TCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
50	624.00	45420.00	-10420.00	46290.00	12540.00	45690.00	50
51	1016.00	73960.00	-23000.00	78650.00	2576.00	77340.00	51
52	216.00	67530.00	-13570.00	71010.00	9815.00	68300.00	52
53	4232.00	90040.00	-15820.00	91220.00	12080.00	81420.00	53
54	3032.00	75980.00	-23910.00	84940.00	9360.00	77810.00	54
56	-2600.00	85620.00	-7728.00	75950.00	2120.00	75990.00	56
57	-4208.00	88830.00	-7280.00	78190.00	312.00	79610.00	57
59	-2192.00	84420.00	3056.00	73250.00	1224.00	75990.00	59
60	-1792.00	84020.00	1264.00	72350.00	-1048.00	75540.00	60
61	-1792.00	93660.00	6648.00	79540.00	768.00	82780.00	61
62	-3408.00	87230.00	4856.00	75050.00	-3752.00	77350.00	62
63	-2600.00	81610.00	-13120.00	76850.00	11170.00	78700.00	63
64	7448.00	73160.00	-6827.00	72360.00	7557.00	69660.00	64

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# FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TOGW 24700 TOCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.10	263.90	1.01	1.03	.99	2
3	264.80	265.40	263.30	.96	1.09	.93	3
4	264.10	264.90	263.90	.97	1.09	.93	4
5	264.40	264.60	264.10	.98	1.02	.96	5
6	264.80	265.10	264.10	1.07	1.11	.96	6
7	263.80	264.30	263.70	1.01	1.04	1.01	7
8	263.40	263.70	263.10	1.01	1.03	1.00	8
9	264.20	264.40	264.10	1.00	1.02	1.00	9
10	264.20	264.30	264.10	1.00	1.01	1.00	10
11	263.50	264.10	263.30	1.02	1.02	1.00	11
12	264.50	264.60	263.90	1.03	1.04	1.01	12
13	263.70	264.60	263.30	1.04	1.06	.93	13
14	264.30	264.40	263.90	1.01	1.04	1.00	14
15	264.20	264.40	263.90	.99	1.02	.97	15
16	264.00	264.30	263.90	1.01	1.03	1.00	16
17	263.90	264.60	263.70	1.03	1.05	.97	17
18	264.10	264.40	263.90	1.01	1.03	1.01	18
19	263.30	264.40	262.60	1.06	1.09	.98	19
20	263.90	264.40	263.30	1.03	1.07	.97	20
21	263.80	264.60	263.30	.99	1.02	.98	21
22	264.00	264.30	263.50	.97	1.02	.96	22
23	263.70	265.30	262.60	1.03	1.09	.92	23
24	264.80	268.40	263.90	1.24	1.28	1.01	24
25	267.80	271.60	262.00	1.11	1.32	.93	25
26	267.60	272.80	262.60	1.13	1.31	.87	26
28	263.90	264.10	263.50	1.01	1.02	.98	28
29	264.00	264.10	263.50	1.00	1.02	.97	29
30	263.40	264.90	262.90	1.02	1.05	.99	30
31	264.20	264.40	263.70	.98	1.02	.96	31
32	264.60	265.10	262.90	1.01	1.10	.95	32
33	264.10	264.60	262.80	1.11	1.21	.99	33
34	264.80	265.10	262.60	1.11	1.27	.98	34
35	264.80	265.60	263.10	1.10	1.16	.87	35
36	265.40	269.10	261.60	1.12	1.29	.89	36
37	263.40	270.40	262.00	1.12	1.31	.92	37
38	264.40	264.60	263.50	.97	.99	.94	38
39	266.00	267.80	264.90	.98	1.02	.93	39
40	263.00	264.10	262.40	.95	1.09	.89	40
41	260.00	261.40	258.10	1.06	1.16	1.04	41
42	276.10	287.60	265.30	1.20	1.30	.84	42
43	271.50	281.60	261.40	1.14	1.32	.89	43
44	263.80	292.30	253.20	1.04	1.61	.61	44
45	270.30	276.90	266.60	1.05	1.11	.90	45
46	268.50	279.70	260.30	1.38	1.59	.75	46
47	286.80	289.40	270.80	1.01	1.24	.91	47
48	278.30	282.10	265.40	1.13	1.26	.90	48
49	263.70	282.70	256.90	1.35	1.45	.62	49



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## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121

TGGW 24200 TCCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
50	279.80	283.80	260.50	1.48	1.64	.96	50
51	273.90	281.20	268.40	1.28	1.45	.94	51
52	265.10	279.10	261.80	1.09	1.38	.93	52
53	275.20	288.10	256.40	1.44	1.91	.72	53
54	275.30	284.50	266.40	1.35	1.74	.91	54
56	264.30	264.60	263.10	.98	1.05	.96	56
57	264.70	264.90	263.50	1.02	1.08	1.00	57
59	263.60	264.30	262.90	.95	1.05	.84	59
60	264.10	264.30	263.30	.94	1.02	.90	60
61	264.30	264.60	263.50	1.02	1.09	.97	61
62	264.30	264.40	263.50	.95	1.02	.92	62
63	271.70	284.90	256.80	1.24	1.62	.81	63
64	266.60	268.40	260.50	1.02	1.12	.96	64

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121  
TGW 24300 TCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-1.43	-.94	-1.93	6.10	7.20	4.59	2
3	-1.14	-.34	-4.71	-.76	2.28	-7.89	3
4	-3.22	-2.13	-3.72	-5.58	.60	-6.42	4
5	-1.53	-.74	-2.93	-3.38	-2.33	-4.11	5
6	-1.34	-.94	-2.13	-2.80	-1.07	-3.49	6
7	-1.53	-1.14	-2.73	-2.33	-1.49	-3.49	7
8	-1.34	-.74	-2.13	-6.11	-4.01	-6.52	8
9	-1.34	-.74	-2.53	-3.80	-2.86	-4.22	9
10	-1.34	-1.14	-1.93	-4.32	-3.90	-4.85	10
11	-2.53	-1.93	-3.12	-4.43	-3.69	-6.11	11
12	-1.53	-1.34	-2.33	2.12	3.01	1.44	12
13	-2.93	-2.33	-3.32	-1.70	1.55	-3.28	13
14	-3.22	-2.73	-3.92	-1.55	-.55	-2.33	14
15	-4.61	-2.33	-6.30	2.23	4.06	1.65	15
16	-2.73	-2.33	-3.12	4.74	5.74	2.80	16
17	-4.71	-.54	-4.91	4.11	8.36	2.17	17
18	-1.53	-1.14	-2.33	6.84	11.40	6.37	18
19	4.43	17.94	-8.49	2.17	5.74	-.13	19
20	-17.63	1.25	-29.56	.03	4.48	-2.54	20
21	-1.93	-.94	-4.32	1.18	1.65	.50	21
22	-3.32	-2.33	-3.92	1.28	1.86	.29	22
23	-1.43	-.74	-2.53	2.49	3.75	1.65	23
24	-4.71	-3.72	-5.11	-.39	3.33	-2.86	24
25	-1.53	-1.14	-2.73	3.01	3.33	2.28	25
26	-1.43	-.94	-2.33	.76	.92	.29	26
28	-6.50	-4.52	-7.10	.55	.92	.18	28
29	-1.53	-1.34	-3.12	1.13	2.07	-.55	29
30	-3.12	-2.33	-6.30	.60	1.34	-.45	30
31	-3.32	-2.93	-3.72	-.55	-.13	-2.02	31
32	-3.02	-2.53	-4.12	2.59	3.01	.92	32
33	-16.04	-2.33	-38.30	14.12	16.22	3.43	33
34	10.49	40.40	-4.71	6.79	11.61	-3.28	34
35	-3.02	-.54	-4.52	.29	12.34	-6.52	35
36	-3.02	-2.13	-3.52	4.59	5.42	2.38	36
37	-2.13	-1.34	-2.73	3.96	4.27	2.91	37
38	-2.13	-1.73	-3.72	3.27	3.85	1.76	38
39	-3.12	-2.93	-3.92	5.37	6.26	4.17	39
40	-3.22	-1.53	-4.12	1.65	2.17	.71	40
41	-1.63	.45	-2.53	-1.86	2.70	-3.59	41
42	-10.48	-3.32	-40.09	6.37	8.88	-1.81	42
43	11.09	40.40	-2.13	-6.05	18.84	-13.86	43
44	-3.22	-2.93	-7.50	10.45	17.27	-.66	44
45	-3.02	-.74	-5.31	5.95	11.29	3.85	45
46	-.34	2.44	-1.53	7.89	13.39	2.59	46
47	-19.22	-1.34	-31.15	9.51	10.98	.71	47
48	13.47	28.28	-2.33	1.97	12.13	-7.47	48
49	-5.21	-3.52	-5.91	9.35	15.49	-1.39	49

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## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 121

TGWH 24300 TDCG 13.4 FWD FLIGHT DATE 08/08/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
50	-2.93	-2.13	-3.72	5.53	6.58	5.11	50
51	-32.05	-7.69	-57.98	-1.60	3.85	-1.81	51
52	26.19	59.09	-1.14	-6.94	8.88	-17.64	52
53	-2.83	-1.93	-6.70	-1.49	12.97	-18.58	53
54	-3.02	-1.93	-4.12	-3.07	-1.28	-6.73	54
56	-1.53	-1.34	-2.33	-4.53	-3.69	-5.06	56
57	-1.63	-1.34	-3.52	-4.95	-4.43	-6.00	57
59	-2.93	-1.93	-3.12	-5.58	-4.64	-7.78	59
60	-1.34	.45	-3.12	-7.84	-5.69	-8.52	60
61	-3.12	-1.93	-3.92	-7.21	-5.37	-7.68	61
62	-2.03	-1.14	-3.72	-8.15	-7.68	-9.35	62
63	-12.07	.65	-65.34	-1.45	5.63	-14.18	63
64	-1.04	4.83	-4.32	10.66	16.85	-2.23	64



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLPI FLIGHT 122  
TGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/09/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	201900.00	13180.00	220100.00	175100.00	6813.00	34070.00	2
3	215100.00	23790.00	255000.00	153900.00	-8633.00	47700.00	3
4	150500.00	20390.00	200600.00	130100.00	-9541.00	50420.00	4
5	145800.00	20390.00	197200.00	125000.00	-1365.00	44970.00	5
6	128800.00	17420.00	153900.00	101200.00	907.00	33620.00	6
7	147900.00	14450.00	142400.00	103700.00	-1819.00	36340.00	7
8	141100.00	11900.00	157300.00	117300.00	452.50	31340.00	8
9	207400.00	19540.00	249400.00	92690.00	907.00	40880.00	9
10	198500.00	16580.00	244000.00	172600.00	-5907.00	47700.00	10
11	232500.00	24220.00	246900.00	145400.00	-7280.00	74500.00	11
12	153000.00	17850.00	176000.00	120700.00	-3640.00	69960.00	12
13	141500.00	13600.00	177700.00	137700.00	-3184.00	65870.00	13
14	145800.00	10620.00	142400.00	116500.00	-9996.00	66320.00	14
15	133500.00	11050.00	157300.00	116500.00	-4546.00	63600.00	15
16	127500.00	9352.00	157300.00	116500.00	-5004.00	61330.00	16
17	201000.00	19980.00	228700.00	72290.00	-5006.00	70420.00	17
18	221000.00	17850.00	240500.00	181900.00	7267.00	35430.00	18
19	210400.00	17420.00	249000.00	192100.00	907.00	32710.00	19
20	224400.00	16140.00	245600.00	192100.00	3633.00	33620.00	20
21	247800.00	20820.00	277900.00	210800.00	2725.00	39980.00	21
22	276700.00	21670.00	298300.00	224400.00	907.00	32710.00	22
23	236300.00	21240.00	283000.00	201500.00	3179.00	38610.00	23
24	281800.00	25070.00	352700.00	182800.00	6808.00	80410.00	24
25	191700.00	27620.00	232900.00	27260.00	14080.00	71320.00	25
26	137300.00	32720.00	226900.00	40010.00	8160.00	88130.00	26
27	197600.00	36960.00	248600.00	12810.00	2712.00	78140.00	27
28	58270.00	10620.00	87580.00	2615.00	6809.00	62230.00	28
29	149200.00	35260.00	213400.00	42560.00	-13630.00	47240.00	29
30	195900.00	34420.00	294100.00	58700.00	-910.00	41790.00	30
31	212100.00	11470.00	223600.00	190400.00	-910.00	35430.00	31
32	209100.00	24640.00	239700.00	166600.00	5447.00	63140.00	32
33	190400.00	24650.00	236300.00	164900.00	440.00	66780.00	33
34	207000.00	19970.00	233700.00	181900.00	-14080.00	57690.00	34
35	211200.00	16570.00	244000.00	180200.00	906.00	65410.00	35
36	299200.00	79030.00	378200.00	108800.00	5450.00	41790.00	36
37	197600.00	133000.00	397800.00	19610.00	4087.00	41340.00	37
38	223500.00	19540.00	242600.00	181100.00	-13180.00	114900.00	38
39	207000.00	22520.00	229500.00	157300.00	-9552.00	182200.00	39
40	92260.00	9776.00	102000.00	51050.00	2270.00	44970.00	40
41	47620.00	5518.00	73140.00	60400.00	2724.00	35430.00	41
42	79510.00	6376.00	87580.00	52750.00	-7275.00	62690.00	42
43	42520.00	6373.00	49740.00	54450.00	907.50	48150.00	43
44	42940.00	10190.00	82480.00	49350.00	-16820.00	112200.00	44
45	44340.00	8431.00	96080.00	57000.00	7721.00	30440.00	45

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 122

TSGW 20800 TCG 9.7 AFT FLIGHT DATE 08/09/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	4323.00	33520.00	994.00	42180.00	-3018.00	42650.00	2
3	5217.00	53190.00	7273.00	65510.00	-10500.00	59810.00	3
4	-594.00	49160.00	-2596.00	55640.00	-21050.00	57170.00	4
5	-4616.00	42460.00	-5288.00	48460.00	-3458.00	53650.00	5
6	2535.00	31730.00	4584.00	41280.00	-3458.00	46610.00	6
7	-3276.00	33970.00	-352.00	43530.00	-6976.00	48370.00	7
8	-147.00	31730.00	1443.00	40830.00	-4338.00	41330.00	8
9	-1041.00	40670.00	545.50	49810.00	-3458.00	50130.00	9
10	-1488.00	48270.00	-2596.00	58340.00	-12260.00	56290.00	10
11	2080.00	75980.00	-1256.00	91990.00	-20620.00	88380.00	11
12	5659.00	69720.00	2328.00	82120.00	-9624.00	82660.00	12
13	4312.00	70170.00	3224.00	83020.00	-18850.00	76950.00	13
14	6105.00	68380.00	3680.00	81660.00	-19730.00	78710.00	14
15	4768.00	46140.00	6368.00	78080.00	-19290.00	75640.00	15
16	7893.00	60330.00	2784.00	71790.00	-15330.00	73430.00	16
17	10570.00	69270.00	7712.00	79420.00	-14020.00	80910.00	17
18	-1488.00	34860.00	-5737.00	42630.00	2698.00	44850.00	18
19	-1935.00	30840.00	-7083.00	36800.00	59.50	40450.00	19
20	-593.50	32180.00	-2596.00	35900.00	-1260.00	41770.00	20
21	-4851.00	36650.00	-3942.00	39940.00	-4777.00	47050.00	21
22	1194.00	31290.00	-3493.00	36800.00	-3018.00	39130.00	22
23	-5510.00	36200.00	-5737.00	42630.00	-2579.00	46610.00	23
24	1640.00	84470.00	-15620.00	98270.00	488.00	94540.00	24
25	-600.00	76870.00	-8432.00	87500.00	5768.00	85740.00	25
26	-1048.00	85370.00	-12030.00	96480.00	4888.00	95420.00	26
27	-2392.00	77770.00	-25940.00	91540.00	-4344.00	92340.00	27
28	-593.50	60780.00	-19200.00	78530.00	-2584.00	76500.00	28
29	8792.00	42460.00	8174.00	49360.00	-29400.00	55850.00	29
30	3876.00	42910.00	-4840.00	49810.00	-10930.00	47930.00	30
31	747.00	35310.00	-4840.00	39940.00	-7416.00	40010.00	31
32	2084.00	67040.00	-4840.00	73140.00	-2152.00	74310.00	32
33	-2835.00	64810.00	-9334.00	70460.00	-10500.00	73870.00	33
34	4770.00	56310.00	545.00	62370.00	-24130.00	62000.00	34
35	-9087.00	60340.00	-15170.00	65520.00	-7423.00	70800.00	35
36	4769.00	42910.00	-352.00	47120.00	-3898.00	47930.00	36
37	5663.00	42010.00	545.00	45320.00	-3018.00	45290.00	37
38	24870.00	120200.00	19380.00	134200.00	-16220.00	121800.00	38
39	44320.00	168500.00	38680.00	180400.00	-10060.00	191300.00	39
40	3876.00	41120.00	-3494.00	43080.00	-6536.00	46170.00	40
41	2088.00	35760.00	-5737.00	36350.00	-6536.00	36500.00	41
42	11920.00	67040.00	4580.00	69100.00	-19290.00	62440.00	42
43	4770.00	48270.00	2789.00	51160.00	-6976.00	50130.00	43
44	28900.00	101900.00	24320.00	106800.00	-24130.00	114800.00	44
45	3876.00	30390.00	-3494.00	34100.00	-8295.00	35620.00	45



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 122

TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/09/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	238700.00	10180.00	242400.00	228500.00	1528.00	37010.00	2
3	284100.00	24590.00	319200.00	219200.00	-1623.00	50400.00	3
4	231900.00	14420.00	270900.00	198000.00	-2413.00	64580.00	4
5	212000.00	19070.00	252200.00	178500.00	1921.00	62610.00	5
6	180600.00	19080.00	212400.00	149600.00	9398.00	60630.00	6
7	147000.00	15690.00	209800.00	144500.00	5068.00	61030.00	7
8	185200.00	12720.00	204800.00	163200.00	5072.00	57100.00	8
9	274700.00	20780.00	319200.00	140300.00	14130.00	62210.00	9
10	245000.00	13990.00	274300.00	229300.00	2709.00	31110.00	10
11	202200.00	16950.00	320100.00	185200.00	11370.00	32680.00	11
12	205200.00	20770.00	242000.00	173400.00	1921.00	24810.00	12
13	211100.00	15680.00	242000.00	184400.00	1134.00	25590.00	13
14	203000.00	16950.00	220000.00	161500.00	1922.00	25590.00	14
15	198000.00	18660.00	222500.00	167400.00	6253.00	22050.00	15
16	203100.00	13570.00	216600.00	150500.00	4284.00	22440.00	16
17	223800.00	20770.00	315800.00	131000.00	2315.00	32290.00	17
18	230200.00	18650.00	246600.00	207300.00	-1623.00	27560.00	18
19	234500.00	18230.00	243200.00	189500.00	6647.00	30320.00	19
20	208100.00	17800.00	247100.00	182700.00	8222.00	39770.00	20
21	200900.00	22460.00	240400.00	170800.00	8222.00	41340.00	21
22	218300.00	21190.00	251400.00	172500.00	10980.00	40950.00	22
23	213200.00	22890.00	248300.00	175900.00	10190.00	42530.00	23
24	345000.00	22890.00	396400.00	252200.00	6248.00	90570.00	24
25	244700.00	18230.00	343000.00	92820.00	5848.00	86230.00	25
26	320900.00	28820.00	396400.00	135200.00	1520.00	91360.00	26
27	247600.00	24170.00	346500.00	88580.00	-8720.00	82690.00	27
28	45700.00	14410.00	148800.00	48740.00	-7144.00	77960.00	28
29	148300.00	29860.00	253100.00	47890.00	3497.00	33470.00	29
30	231500.00	29250.00	323600.00	77570.00	740.00	33080.00	30
31	251400.00	10180.00	241600.00	238700.00	1528.00	27560.00	31
32	242500.00	17380.00	287800.00	213200.00	5072.00	45280.00	32
33	229300.00	17800.00	290400.00	203100.00	3497.00	56310.00	33
34	240700.00	13570.00	274300.00	236100.00	-2804.00	35040.00	34
35	271700.00	12720.00	284400.00	237000.00	6647.00	35830.00	35
36	181000.00	72920.00	375200.00	108100.00	346.00	35830.00	36
37	273000.00	123400.00	346400.00	36870.00	740.00	36230.00	37
38	239900.00	13140.00	276000.00	209000.00	10970.00	91350.00	38
39	249400.00	15490.00	304000.00	244600.00	2304.00	85840.00	39
40	147900.00	5936.00	155600.00	100400.00	5072.00	26380.00	40
41	104300.00	3816.00	114000.00	99600.00	5072.00	17720.00	41
42	101700.00	4664.00	133500.00	72480.00	5072.00	25590.00	42
43	105500.00	5088.00	110600.00	85200.00	-441.50	12210.00	43
44	85620.00	7200.00	107200.00	76720.00	6253.00	18110.00	44
45	155600.00	6784.00	144900.00	96210.00	6253.00	23630.00	45



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 122

TOWW 20800 TBCG 9.7 AFT FLIGHT DATE 08/09/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	3548.00	35640.00	-6894.00	34470.00	6326.00	34200.00	2
3	7152.00	48050.00	-10480.00	47010.00	13080.00	45450.00	3
4	-1260.00	64470.00	-11380.00	59550.00	11270.00	58950.00	4
5	-1259.00	65270.00	-3312.00	58650.00	7222.00	60300.00	5
6	2347.00	60860.00	-626.00	58650.00	7672.00	59850.00	6
7	5144.00	60460.00	-1522.00	57750.00	16680.00	56250.00	7
8	2347.00	55260.00	-2865.00	50140.00	9926.00	50400.00	8
9	2341.00	63260.00	-1074.00	61780.00	7220.00	61200.00	9
10	-5662.00	31230.00	-6894.00	32680.00	3175.00	32850.00	10
11	-5262.00	30030.00	-1522.00	35370.00	-2225.00	32850.00	11
12	-3660.00	22820.00	-2865.00	34020.00	-1775.00	28800.00	12
13	-456.00	24430.00	-5551.00	34030.00	-2675.00	29700.00	13
14	-4861.00	22420.00	-5103.00	32680.00	2725.00	27900.00	14
15	-3660.00	21220.00	-2865.00	28650.00	25.00	27900.00	15
16	-6863.00	22820.00	-7790.00	30000.00	-3575.00	29700.00	16
17	1946.00	29230.00	-14500.00	33130.00	2725.00	32400.00	17
18	-2058.00	28430.00	-12270.00	30000.00	4075.00	29250.00	18
19	-4061.00	33630.00	-9132.00	32230.00	25.00	33300.00	19
20	-5662.00	39240.00	-7342.00	39400.00	-3125.00	37350.00	20
21	-2459.00	39240.00	-2417.00	35370.00	3175.00	34650.00	21
22	-3259.00	40840.00	-1074.00	36710.00	-1775.00	36900.00	22
23	-857.00	44050.00	4299.00	38500.00	1826.00	37800.00	23
24	-2464.00	95300.00	-6904.00	81930.00	3624.00	87300.00	24
25	8744.00	85690.00	-10040.00	83270.00	16660.00	83260.00	25
26	9152.00	91700.00	-12720.00	89540.00	16670.00	85950.00	26
27	2744.00	83690.00	-21220.00	81030.00	12170.00	78760.00	27
28	6344.00	76870.00	-22120.00	78350.00	14420.00	78300.00	28
29	-4062.00	34040.00	-1969.00	34030.00	2275.00	33750.00	29
30	745.00	32830.00	-10480.00	33580.00	11730.00	31500.00	30
31	-854.50	29630.00	-11820.00	27760.00	5425.00	27900.00	31
32	-7664.00	42840.00	-3760.00	40290.00	3176.00	37350.00	32
33	-4861.00	53660.00	-6894.00	50590.00	25.00	46800.00	33
34	-2058.00	37240.00	-15400.00	29550.00	4525.00	32400.00	34
35	-4060.00	34440.00	-5104.00	30000.00	-1775.00	29700.00	35
36	-8865.00	36840.00	-7342.00	37610.00	-2675.00	34200.00	36
37	3548.00	38040.00	-9133.00	35820.00	9476.00	38250.00	37
38	-16880.00	90500.00	-1080.00	79690.00	472.00	76060.00	38
39	-1264.00	88500.00	-6008.00	74760.00	4968.00	76950.00	39
40	-857.00	25630.00	-5999.00	23730.00	8576.00	22050.00	40
41	1146.00	17220.00	-6894.00	13880.00	8126.00	14400.00	41
42	744.50	24830.00	-5551.00	21490.00	10380.00	22050.00	42
43	745.00	12010.00	-11370.00	13880.00	11730.00	12600.00	43
44	344.50	18020.00	-7789.00	19250.00	6776.00	19350.00	44
45	-1257.00	23420.00	-4656.00	17910.00	8126.00	18900.00	45

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 122  
TUGW 20800 TDCG 9.7 AFT FLIGHT DATE 08/09/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.90	265.40	263.90	1.00	1.02	.96	2
3	264.90	266.60	263.30	1.00	1.06	.95	3
4	264.80	266.00	263.90	1.00	1.08	.95	4
5	266.30	267.00	264.90	1.00	1.05	.94	5
6	266.00	266.20	265.10	.99	1.03	.96	6
7	264.80	266.20	263.70	.98	1.06	.92	7
8	265.20	265.60	263.90	1.00	1.02	.94	8
9	262.70	266.20	262.20	1.04	1.09	.94	9
10	264.90	265.80	263.90	1.02	1.06	.96	10
11	265.00	267.90	263.50	.94	1.13	.87	11
12	265.90	266.60	264.90	1.00	1.04	.95	12
13	264.70	265.30	264.30	.98	1.02	.95	13
14	265.30	266.40	265.10	1.04	1.07	.94	14
15	264.80	265.60	264.30	1.02	1.05	.93	15
16	264.90	266.60	264.10	1.03	1.06	.96	16
17	266.20	266.80	261.80	1.01	1.08	.95	17
18	264.60	265.10	264.10	1.00	1.03	.96	18
19	265.40	267.00	264.10	.98	1.06	.92	19
20	265.20	266.20	264.30	1.00	1.06	.96	20
21	264.80	266.20	263.90	.97	1.09	.92	21
22	264.90	266.00	264.10	.98	1.06	.95	22
23	264.70	266.80	263.70	1.03	1.06	.95	23
24	265.30	266.20	263.10	1.02	1.12	.81	24
25	264.80	266.40	261.60	1.01	1.08	.92	25
26	264.00	266.60	262.60	1.04	1.08	.93	26
27	263.20	266.80	260.50	1.10	1.37	.92	27
28	267.60	268.40	261.60	.99	1.27	.84	28
29	269.20	272.20	263.70	1.27	1.46	.78	29
30	263.70	267.40	260.10	1.02	1.14	.87	30
31	264.40	264.60	263.70	.99	1.02	.97	31
32	264.70	265.30	263.50	1.01	1.06	.94	32
33	264.70	266.00	263.30	.99	1.06	.94	33
34	263.50	265.10	263.10	.98	1.02	.96	34
35	264.00	264.90	263.10	1.00	1.04	.97	35
36	264.00	265.60	263.10	1.04	1.17	.95	36
37	263.90	266.40	262.90	1.02	1.10	.91	37
38	263.90	265.80	262.90	1.02	1.08	.96	38
39	264.30	264.90	263.50	1.01	1.02	.97	39
40	264.80	266.60	264.30	.98	1.02	.95	40
41	264.30	264.60	263.90	1.01	1.02	.98	41
42	264.80	265.30	263.50	1.01	1.02	.98	42
43	264.80	265.10	264.10	1.00	1.02	.97	43
44	264.10	264.90	263.90	1.00	1.05	.96	44
45	264.60	265.80	263.50	1.01	1.04	.97	45

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 122  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/09/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-1.95	-1.13	-2.60	5.74	6.51	4.21	2
3	-2.52	-.64	-5.87	3.65	6.09	3.18	3
4	-1.79	-.48	-2.77	5.10	5.92	3.70	4
5	-3.66	-2.11	-6.36	5.32	6.17	3.78	5
6	-2.36	-.48	-2.77	4.59	5.23	4.29	6
7	-2.52	-1.30	-3.26	4.51	6.17	4.12	7
8	-3.17	-2.60	-3.91	5.02	5.57	3.44	8
9	-2.44	9.31	-8.48	5.49	8.48	2.84	9
10	.01	.66	-.64	4.55	5.40	3.78	10
11	2.95	4.74	.83	4.16	5.57	3.52	11
12	.17	.50	-.32	5.27	6.34	3.95	12
13	1.81	4.09	.50	4.25	5.15	3.70	13
14	3.35	3.60	.99	4.51	5.40	4.12	14
15	1.40	4.91	.50	4.55	4.98	2.33	15
16	2.54	3.44	1.64	5.19	5.74	3.27	16
17	-3.91	1.48	-12.56	4.85	6.60	2.93	17
18	-.15	.17	-.64	5.96	6.60	4.38	18
19	.25	.66	-1.62	4.68	6.51	4.04	19
20	-.64	.50	-1.79	6.68	7.11	4.81	20
21	-.24	.99	-.81	5.02	7.54	4.21	21
22	-.15	.01	-.64	5.40	7.11	4.64	22
23	-1.05	.17	-1.62	.62	3.52	-2.28	23
24	-.24	1.64	-1.62	-2.54	2.59	-12.70	24
25	-.73	1.48	-1.46	5.66	10.27	1.39	25
26	-3.26	1.81	-7.34	2.97	7.20	1.22	26
27	.66	2.62	-1.95	8.65	19.66	2.24	27
28	-.81	.66	-1.30	5.49	11.64	1.56	28
29	-.56	.34	-.97	4.16	4.81	2.50	29
30	-.32	.34	-.97	4.12	4.46	3.35	30
31	-.56	-.32	-1.46	4.64	5.23	4.29	31
32	1.15	4.09	-4.73	3.74	6.00	-1.85	32
33	-.48	1.81	-2.77	3.23	6.43	.02	33
34	-1.95	-.97	-3.42	5.10	6.00	4.21	34
35	-3.42	-.64	-4.23	4.93	5.49	4.04	35
36	-1.79	-.64	-2.60	4.93	5.92	2.59	36
37	-1.79	-.64	-2.28	2.46	6.85	1.31	37
38	-.56	.83	-2.93	5.57	9.76	4.12	38
39	-.48	.99	-1.95	2.03	3.52	.62	39
40	-.24	.34	-.48	4.04	4.64	3.61	40
41	-.15	2.13	-.32	2.97	4.38	2.16	41
42	1.56	1.81	-2.77	3.44	5.15	2.67	42
43	-.15	.17	-.48	3.82	4.38	3.35	43
44	-2.44	-.64	-3.09	3.23	4.21	2.67	44
45	1.56	3.44	-3.26	.88	5.32	.28	45



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	243200.00	20090.00	241800.00	212700.00	-7160.00	78580.00	2
3	272300.00	6488.00	285300.00	260700.00	-4040.00	76360.00	3
4	243300.00	7784.00	276200.00	254200.00	-2636.00	74120.00	4
5	251600.00	9072.00	268400.00	241200.00	-1808.00	76800.00	5
6	248300.00	7128.00	260700.00	237300.00	-2248.00	76360.00	6
7	245800.00	9720.00	256800.00	230800.00	-1800.00	74120.00	7
8	247000.00	12310.00	245800.00	228300.00	-456.50	40630.00	8
9	230800.00	10370.00	241200.00	217900.00	436.50	43310.00	9
10	219800.00	9728.00	229600.00	204900.00	1330.00	44210.00	10
11	209500.00	9728.00	219200.00	192000.00	1776.00	49120.00	11
12	207500.00	10380.00	224400.00	194500.00	1330.00	47780.00	12
13	204300.00	11020.00	215300.00	182900.00	2223.00	49560.00	13
14	152400.00	17500.00	175100.00	96030.00	6242.00	56260.00	14
15	121300.00	11020.00	136200.00	107700.00	7135.00	51800.00	15
16	145900.00	11020.00	159600.00	132300.00	4009.00	53140.00	16
17	149800.00	12320.00	181600.00	105100.00	3562.00	54480.00	17
18	143900.00	12310.00	206200.00	144000.00	4451.00	62510.00	18
19	154400.00	19450.00	195800.00	81760.00	3562.00	59840.00	19
20	144100.00	17500.00	182900.00	96030.00	3116.00	57600.00	20
21	148500.00	16210.00	149900.00	125800.00	3562.00	54480.00	21
22	171900.00	21390.00	197100.00	137500.00	883.00	54480.00	22
23	176400.00	20740.00	212700.00	103800.00	7131.00	65190.00	23
24	147200.00	20100.00	198400.00	93420.00	4450.00	66970.00	24
25	130400.00	14900.00	153100.00	112900.00	-1350.00	55820.00	25
26	140800.00	21760.00	172500.00	101200.00	2223.00	54920.00	26
27	143300.00	20100.00	143400.00	119400.00	9808.00	91980.00	27
28	142000.00	13620.00	159600.00	123200.00	-10.00	43760.00	28
29	135600.00	13610.00	151800.00	112900.00	5795.00	58500.00	29
30	101900.00	27870.00	182900.00	68800.00	5795.00	59390.00	30
31	179000.00	28520.00	207500.00	105100.00	2223.00	57600.00	31
32	143400.00	33700.00	197100.00	94740.00	2223.00	60280.00	32
33	53250.00	15550.00	96030.00	37700.00	8921.00	47330.00	33
34	24400.00	10370.00	46770.00	19550.00	6242.00	39290.00	34
35	-17400.00	8427.00	-2491.00	-29720.00	5795.00	33490.00	35
36	149800.00	13620.00	211400.00	79170.00	3562.00	55370.00	36
37	-46570.00	6482.00	-25830.00	-53050.00	7581.00	37960.00	37
38	-51430.00	10050.00	-15460.00	-61480.00	7531.00	55820.00	38
39	-24530.00	11670.00	-11570.00	-61480.00	6688.00	54030.00	39
40	-27490.00	10370.00	-23230.00	-47860.00	22320.00	47330.00	40
41	-42680.00	10370.00	-27120.00	-53050.00	8028.00	37510.00	41
42	-29440.00	13610.00	-11570.00	-61480.00	-6710.00	65640.00	42
43	118700.00	7128.00	128400.00	106400.00	-5375.00	69670.00	43
44	174400.00	9072.00	203600.00	164700.00	-1808.00	78590.00	44
45	203600.00	14260.00	238600.00	182900.00	1776.00	77700.00	45
46	224400.00	18150.00	252900.00	206200.00	2664.00	75910.00	46
47	276900.00	21390.00	298300.00	225700.00	6680.00	79930.00	47
48	275600.00	21390.00	304700.00	247700.00	5792.00	78140.00	48

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124

TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
49	274900.00	22040.00	315100.00	251600.00	7128.00	78580.00	49
50	249100.00	26530.00	316400.00	238600.00	9808.00	81260.00	50
51	273000.00	23980.00	309900.00	242500.00	9800.00	80380.00	51
52	112200.00	8424.00	124500.00	39920.00	-2248.00	73670.00	52
53	156300.00	17500.00	184200.00	136200.00	-3592.00	74120.00	53
54	282000.00	16210.00	298300.00	217900.00	-1796.00	44650.00	54
55	245800.00	16200.00	276200.00	220500.00	3116.00	59390.00	55
56	243800.00	45380.00	299600.00	190700.00	-10.00	53580.00	56
57	236000.00	23330.00	282700.00	212700.00	11150.00	63850.00	57
58	182900.00	18140.00	217900.00	111600.00	6680.00	76360.00	58
59	121300.00	5832.00	128400.00	112900.00	-1358.00	64750.00	59
60	134300.00	7128.00	147900.00	125800.00	-2696.00	70550.00	60
61	180300.00	14260.00	201000.00	145300.00	424.00	79930.00	61
62	175800.00	9720.00	190700.00	160800.00	5348.00	43760.00	62
63	256100.00	17500.00	289200.00	238600.00	12040.00	63850.00	63
64	142000.00	8424.00	159600.00	131000.00	4455.00	31260.00	64
65	175800.00	8424.00	188100.00	157000.00	4456.00	36620.00	65
66	208200.00	8432.00	220500.00	198400.00	3563.00	38400.00	66
67	248300.00	18790.00	267100.00	215300.00	7581.00	48670.00	67
68	244500.00	13620.00	286600.00	236000.00	5795.00	46890.00	68
69	301500.00	17500.00	319000.00	268400.00	6242.00	54480.00	69
70	309300.00	18790.00	323300.00	284000.00	7134.00	58050.00	70
71	-23880.00	5834.00	-16750.00	-33600.00	-4033.00	64750.00	71
72	-27770.00	8426.00	-11570.00	-43980.00	-464.00	74580.00	72
73	-44950.00	16530.00	26030.00	-61480.00	-6712.00	84390.00	73
74	-28420.00	11670.00	-10270.00	-40090.00	-6264.00	66090.00	74
75	-34250.00	14910.00	-12860.00	-50460.00	-10730.00	56260.00	75
76	-27770.00	18800.00	-5084.00	-46570.00	12490.00	104500.00	76
77	-36520.00	24950.00	15660.00	-61480.00	-7160.00	86630.00	77
78	-22580.00	22490.00	9176.00	-61480.00	-9840.00	81260.00	78
79	-41380.00	14260.00	46210.00	-61480.00	14720.00	103200.00	79
80	171200.00	25930.00	233400.00	14360.00	-912.00	73230.00	80



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	7384.00	77320.00	-9032.00	91080.00	5592.00	91100.00	2
3	11030.00	71860.00	-5896.00	87050.00	9552.00	85380.00	3
4	12400.00	70500.00	-4096.00	85250.00	10870.00	82300.00	4
5	13300.00	73230.00	-5440.00	89300.00	12630.00	85820.00	5
6	12850.00	72770.00	-4096.00	87950.00	11750.00	85820.00	6
7	11030.00	71860.00	-3200.00	86140.00	12190.00	81860.00	7
8	3300.00	39570.00	1296.00	47560.00	3398.00	46650.00	8
9	3754.00	42760.00	1296.00	50250.00	3398.00	49290.00	9
10	4664.00	44570.00	398.00	50250.00	2958.00	49730.00	10
11	5119.00	48670.00	1296.00	57430.00	4719.00	55890.00	11
12	5119.00	47760.00	398.00	54740.00	4278.00	54570.00	12
13	4209.00	50490.00	2193.00	56540.00	2518.00	56330.00	13
14	1480.00	56860.00	8020.00	64160.00	-1883.00	63370.00	14
15	3300.00	52310.00	3539.00	57880.00	2078.00	58530.00	15
16	5119.00	54130.00	1296.00	61020.00	3398.00	61610.00	16
17	2845.00	55490.00	3091.00	61920.00	1638.00	62490.00	17
18	3748.00	61850.00	3088.00	71790.00	1632.00	68660.00	18
19	4209.00	60490.00	3535.00	65950.00	2072.00	68220.00	19
20	4209.00	58670.00	3536.00	64160.00	1196.00	66450.00	20
21	1025.00	53670.00	2642.00	60570.00	-1884.00	59850.00	21
22	-794.50	51850.00	398.00	59230.00	-3204.00	56770.00	22
23	2841.00	64580.00	6229.00	71340.00	752.00	73060.00	23
24	565.50	65950.00	5328.00	74930.00	-2328.00	73500.00	24
25	-4433.00	60040.00	-7685.00	64620.00	-11570.00	66900.00	25
26	3755.00	54580.00	-3194.00	63720.00	1198.00	62050.00	26
27	-5344.00	81870.00	16100.00	104500.00	-5408.00	89780.00	27
28	4938.00	44120.00	-2743.00	51600.00	5598.00	49730.00	28
29	1935.00	59130.00	4881.00	64610.00	-1008.00	66900.00	29
30	1480.00	61400.00	5334.00	68650.00	-2768.00	69540.00	30
31	5570.00	61850.00	9370.00	67300.00	5596.00	70850.00	31
32	2384.00	63220.00	-64.00	71340.00	-128.00	72180.00	32
33	3755.00	49120.00	5334.00	53400.00	2518.00	55450.00	33
34	4209.00	41390.00	4885.00	45770.00	3838.00	46210.00	34
35	5119.00	34110.00	2193.00	38590.00	1638.00	39610.00	35
36	3299.00	55950.00	3540.00	61470.00	1198.00	63810.00	36
37	4210.00	37750.00	4437.00	42630.00	3398.00	43130.00	37
38	-794.00	55490.00	5780.00	61020.00	-4524.00	59850.00	38
39	-1249.00	52310.00	2642.00	58780.00	-4524.00	58970.00	39
40	1025.00	56400.00	25520.00	52940.00	-1444.00	61170.00	40
41	2845.00	36390.00	6232.00	40830.00	2078.00	40930.00	41
42	-6711.00	69590.00	-7680.00	73580.00	-7168.00	74820.00	42
43	4478.00	71860.00	-9032.00	80310.00	2072.00	84060.00	43
44	7384.00	76410.00	-2752.00	89300.00	7792.00	87140.00	44
45	4208.00	77780.00	1736.00	89290.00	5592.00	88460.00	45
46	5568.00	75500.00	2632.00	85700.00	6912.00	88020.00	46
47	2384.00	83230.00	8464.00	91540.00	3392.00	96820.00	47
48	2840.00	80060.00	6672.00	89740.00	4272.00	94180.00	48



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TEGW 20800 TECR 9.7 AFT FLIGHT DATE 08/11/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
49	2744.00	81870.00	7120.00	91090.00	5152.00	95940.00	49
50	2840.00	85510.00	10710.00	93780.00	3824.00	101700.00	50
51	5112.00	85050.00	10710.00	95580.00	6032.00	101200.00	51
52	11490.00	70500.00	-7232.00	83900.00	7792.00	84500.00	52
53	10570.00	69590.00	-8136.00	86600.00	8232.00	83180.00	53
54	2845.00	41850.00	-4089.00	49360.00	2078.00	47970.00	54
55	-2069.00	42310.00	4878.00	68190.00	-4526.00	69540.00	55
56	5574.00	50940.00	-947.50	59680.00	1638.00	58090.00	56
57	4937.00	42310.00	11610.00	74030.00	4716.00	68210.00	57
58	10570.00	75950.00	2184.00	86150.00	10430.00	86260.00	58
59	4207.00	62760.00	-5888.00	73580.00	4712.00	73500.00	59
60	7386.00	70040.00	-6784.00	80770.00	3392.00	80980.00	60
61	2744.00	75500.00	-1856.00	92880.00	2072.00	87580.00	61
62	1935.00	45480.00	6232.00	49810.00	-1443.00	53250.00	62
63	1480.00	68680.00	7576.00	76280.00	3832.00	82300.00	63
64	4210.00	32290.00	1296.00	35900.00	317.50	37410.00	64
65	4664.00	36390.00	3091.00	42180.00	2078.00	42690.00	65
66	5119.00	39570.00	3091.00	45770.00	1638.00	47530.00	66
67	4209.00	51400.00	4437.00	58780.00	3838.00	61170.00	67
68	6028.00	50490.00	6232.00	57880.00	4718.00	59410.00	68
69	4664.00	56400.00	6227.00	63260.00	3396.00	67770.00	69
70	5570.00	61850.00	7127.00	69550.00	6032.00	72180.00	70
71	10120.00	63670.00	-12620.00	72250.00	-4088.00	75260.00	71
72	9666.00	72320.00	-10830.00	83900.00	-1008.00	85380.00	72
73	1928.00	83690.00	-19350.00	98710.00	-4536.00	103900.00	73
74	8756.00	66860.00	-13520.00	80320.00	312.00	80540.00	74
75	-339.00	64130.00	-14860.00	70000.00	-9806.00	74820.00	75
76	-1712.00	111900.00	7120.00	115300.00	-576.00	114900.00	76
77	1472.00	95970.00	-16220.00	107200.00	-11580.00	118800.00	77
78	1928.00	89140.00	-16210.00	103600.00	-9816.00	111800.00	78
79	5568.00	100100.00	6224.00	115300.00	744.00	111800.00	79
80	11030.00	71860.00	-4096.00	81660.00	7792.00	83620.00	80

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	324600.00	23070.00	400200.00	301500.00	864.00	84900.00	2
3	348800.00	8336.00	387400.00	360500.00	2848.00	70290.00	3
4	349500.00	7696.00	382300.00	361800.00	2063.00	63180.00	4
5	372000.00	10260.00	383600.00	352800.00	1268.00	66330.00	5
6	354700.00	8328.00	372000.00	345100.00	872.00	68310.00	6
7	363000.00	8976.00	381000.00	354100.00	1273.00	60810.00	7
8	342500.00	11540.00	356600.00	318200.00	1668.00	28040.00	8
9	329100.00	8328.00	342500.00	319500.00	2853.00	28430.00	9
10	321000.00	7688.00	341200.00	320800.00	3642.00	29220.00	10
11	305400.00	7688.00	319500.00	297700.00	1273.00	37910.00	11
12	325200.00	9616.00	328700.00	311800.00	1273.00	33170.00	12
13	313100.00	8976.00	331000.00	304100.00	878.50	36720.00	13
14	297000.00	21140.00	350200.00	250200.00	483.00	44230.00	14
15	288700.00	19220.00	307900.00	266900.00	-701.00	44620.00	15
16	288100.00	14740.00	304100.00	270800.00	-3071.00	43830.00	16
17	294500.00	14740.00	309200.00	237400.00	-5447.00	67530.00	17
18	325900.00	17950.00	343800.00	290000.00	-320.00	86080.00	18
19	306600.00	23070.00	352800.00	233600.00	1273.00	62390.00	19
20	302200.00	14740.00	323600.00	245100.00	-4255.00	56070.00	20
21	336100.00	10260.00	352800.00	318200.00	1273.00	43440.00	21
22	343700.00	18530.00	383600.00	334800.00	878.00	44620.00	22
23	361100.00	18590.00	386100.00	252800.00	-4264.00	74230.00	23
24	334800.00	21790.00	384200.00	249000.00	872.00	72260.00	24
25	279700.00	16660.00	305400.00	260500.00	4037.00	46990.00	25
26	272700.00	25000.00	307900.00	247700.00	-1491.00	45410.00	26
27	274600.00	17940.00	313100.00	256700.00	6400.00	78580.00	27
28	272000.00	17940.00	295100.00	249000.00	-2676.00	53700.00	28
29	272000.00	16660.00	297700.00	255400.00	-2676.00	50540.00	29
30	302800.00	26910.00	347700.00	240000.00	5616.00	82530.00	30
31	347700.00	32050.00	383600.00	214400.00	-9392.00	58050.00	31
32	324000.00	49340.00	382300.00	214400.00	-9791.00	60820.00	32
33	217600.00	12180.00	256700.00	204100.00	2063.00	56070.00	33
34	158600.00	9608.00	172100.00	141300.00	4432.00	37910.00	34
35	88100.00	10900.00	102800.00	66940.00	2458.00	28830.00	35
36	343200.00	12180.00	355400.00	282300.00	3247.00	55680.00	36
37	87480.00	7691.00	46450.00	15690.00	1668.00	35140.00	37
38	44450.00	11540.00	40550.00	11840.00	2853.00	49750.00	38
39	51570.00	14090.00	77200.00	4149.00	4827.00	54890.00	39
40	24660.00	10250.00	40040.00	14400.00	7591.00	48170.00	40
41	33630.00	11540.00	45170.00	18250.00	-5045.00	31590.00	41
42	32350.00	14100.00	70800.00	4149.00	-13740.00	63970.00	42
43	204700.00	13460.00	218200.00	184900.00	-7416.00	80550.00	43
44	243800.00	14100.00	257900.00	222000.00	1264.00	94770.00	44
45	265000.00	18580.00	291300.00	245100.00	13900.00	120000.00	45
46	278400.00	19230.00	306600.00	255400.00	8768.00	96740.00	46
47	328400.00	38460.00	372000.00	287400.00	28110.00	156400.00	47
48	342500.00	37180.00	381000.00	293800.00	20620.00	138600.00	48



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124

TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
49	335500.00	32690.00	372000.00	296400.00	10740.00	131100.00	49
50	334800.00	44860.00	379700.00	287400.00	32850.00	158700.00	50
51	338000.00	45500.00	383600.00	287400.00	28110.00	161100.00	51
52	230400.00	10900.00	245100.00	213100.00	1273.00	61600.00	52
53	300900.00	14740.00	315600.00	274600.00	4037.00	47780.00	53
54	288700.00	12820.00	343800.00	275900.00	-306.00	23690.00	54
55	349600.00	16020.00	345600.00	315600.00	2853.00	39490.00	55
56	333600.00	46140.00	379700.00	287400.00	2458.00	38300.00	56
57	312400.00	18580.00	324800.00	277200.00	17070.00	45800.00	57
58	299000.00	15380.00	378400.00	273300.00	2458.00	55680.00	58
59	234900.00	10260.00	246400.00	214400.00	-712.00	73050.00	59
60	209200.00	11540.00	222000.00	193800.00	-1504.00	87260.00	60
61	257300.00	18590.00	279700.00	201500.00	26540.00	176100.00	61
62	241300.00	8968.00	255400.00	231000.00	4037.00	43830.00	62
63	341200.00	21790.00	345600.00	307900.00	9952.00	87660.00	63
64	188100.00	8336.00	201500.00	174600.00	-3861.00	58050.00	64
65	184200.00	9608.00	193800.00	168200.00	-1836.00	71080.00	65
66	206700.00	11540.00	213500.00	193800.00	872.00	78580.00	66
67	232300.00	19230.00	244400.00	209200.00	30090.00	125200.00	67
68	242400.00	17300.00	279700.00	209200.00	6792.00	90820.00	68
69	277800.00	19870.00	297700.00	240000.00	22580.00	115300.00	69
70	291300.00	25630.00	318200.00	256700.00	44300.00	148100.00	70
71	20170.00	7050.00	27220.00	10560.00	-10970.00	69890.00	71
72	19530.00	8973.00	26190.00	5431.00	-8601.00	72260.00	72
73	48360.00	31400.00	81060.00	-9951.00	-10980.00	84110.00	73
74	19530.00	12820.00	22350.00	2867.00	-12940.00	67920.00	74
75	24020.00	18590.00	42600.00	5431.00	-24010.00	71080.00	75
76	24020.00	21150.00	45170.00	-2260.00	11920.00	82530.00	76
77	40030.00	35890.00	141300.00	-24050.00	-14920.00	79370.00	77
78	47460.00	43580.00	131000.00	2867.00	-7816.00	74630.00	78
79	54140.00	26920.00	150300.00	-12520.00	5216.00	78980.00	79
80	272700.00	23710.00	345600.00	78480.00	2448.00	83310.00	80



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-4352.00	91020.00	-3064.00	77580.00	-3584.00	81220.00	2
3	-5152.00	71780.00	975.50	63670.00	-2222.00	62710.00	3
4	-3947.00	63370.00	-817.50	58290.00	-1320.00	55490.00	4
5	-2741.00	66970.00	-2612.00	60980.00	-868.50	58650.00	5
6	-4342.00	67770.00	-818.00	62780.00	34.00	59550.00	6
7	-2336.00	60950.00	-3060.00	56950.00	-868.00	54140.00	7
8	-8351.00	27670.00	-369.50	25560.00	-5831.00	27520.00	8
9	-4346.00	28870.00	-817.50	28700.00	-3575.00	27970.00	9
10	-7148.00	31280.00	3667.00	28700.00	-4027.00	28420.00	10
11	-4341.00	34090.00	79.00	37670.00	-4478.00	33390.00	11
12	-5544.00	32880.00	527.50	33630.00	-3124.00	30230.00	12
13	-4742.00	35290.00	-1267.00	36320.00	-2673.00	33390.00	13
14	-2336.00	46520.00	-2612.00	42150.00	-3124.00	40150.00	14
15	-1133.00	45310.00	-2612.00	43050.00	2290.00	40150.00	15
16	-5143.00	44510.00	-3509.00	44840.00	-2673.00	43310.00	16
17	-8351.00	64560.00	-12030.00	66820.00	-7643.00	63620.00	17
18	-8360.00	79800.00	-14280.00	80710.00	-13960.00	73550.00	18
19	-4341.00	58950.00	975.50	58290.00	-2222.00	52790.00	19
20	-5544.00	56940.00	-6648.00	51570.00	-2222.00	53690.00	20
21	-7549.00	44510.00	1424.00	39010.00	-1771.00	38800.00	21
22	-5544.00	47320.00	2770.00	37670.00	-4026.00	38350.00	22
23	-7556.00	72590.00	-5308.00	69060.00	-4483.00	64970.00	23
24	-5951.00	68580.00	-7550.00	65920.00	-4033.00	62720.00	24
25	471.50	46920.00	2321.00	51570.00	1839.00	46920.00	25
26	-6346.00	45710.00	-6647.00	42600.00	-5380.00	46020.00	26
27	-9160.00	75780.00	10840.00	71740.00	24.00	69480.00	27
28	-6747.00	49320.00	-1267.00	51570.00	-2673.00	51430.00	28
29	-2138.00	50530.00	-6647.00	47980.00	936.50	46920.00	29
30	-1144.00	87020.00	-11140.00	76680.00	1832.00	74890.00	30
31	-14370.00	56140.00	-7545.00	59640.00	-15760.00	57300.00	31
32	-2336.00	60150.00	-13380.00	60090.00	-1771.00	60460.00	32
33	-4747.00	53330.00	3218.00	50670.00	-4478.00	46920.00	33
34	-1935.00	39700.00	3667.00	34080.00	-417.00	34740.00	34
35	-9153.00	30080.00	-3509.00	27800.00	-1771.00	27970.00	35
36	-7549.00	54140.00	1873.00	48430.00	-417.00	47370.00	36
37	-7148.00	36890.00	-4405.00	32290.00	-417.00	34740.00	37
38	-7950.00	53730.00	-818.00	41250.00	-3124.00	45570.00	38
39	-4346.00	56940.00	975.50	43050.00	34.00	46920.00	39
40	-1534.00	46520.00	527.50	39010.00	4546.00	37000.00	40
41	-4747.00	34090.00	-10680.00	35870.00	34.00	33390.00	41
42	-9559.00	65770.00	-11130.00	53360.00	-3575.00	54140.00	42
43	-2744.00	84620.00	-11580.00	72640.00	3184.00	74450.00	43
44	-7152.00	95440.00	-2168.00	83850.00	-2680.00	87530.00	44
45	-15580.00	111100.00	5904.00	100900.00	-11250.00	93390.00	45
46	-7160.00	98650.00	7248.00	85200.00	-4480.00	89330.00	46
47	-1536.00	141200.00	13070.00	137700.00	-9904.00	122700.00	47
48	-10360.00	129900.00	10830.00	124700.00	-13060.00	111400.00	48

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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/11/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
49	64.00	125900.00	72.00	113000.00	-4936.00	105100.00	49
50	-5544.00	156400.00	10380.00	141200.00	8144.00	123600.00	50
51	-14370.00	154000.00	16220.00	144400.00	928.00	122700.00	51
52	-1535.00	64160.00	-2164.00	56050.00	1839.00	57750.00	52
53	-731.50	47320.00	527.50	46190.00	3192.00	43760.00	53
54	-4742.00	24060.00	-2163.00	23770.00	34.00	24360.00	54
55	-8351.00	37290.00	1425.00	39910.00	-8989.00	35190.00	55
56	70.50	33680.00	1873.00	38560.00	7704.00	32940.00	56
57	2878.00	43710.00	13080.00	43500.00	2290.00	42860.00	57
58	1274.00	54140.00	-2612.00	52910.00	5448.00	49630.00	58
59	464.00	72580.00	-5757.00	65920.00	4093.00	64520.00	59
60	-5552.00	90620.00	-9800.00	78020.00	-424.00	80760.00	60
61	-7160.00	175600.00	12180.00	147500.00	1832.00	135400.00	61
62	-5143.00	41300.00	-369.50	39910.00	-417.00	38350.00	62
63	-11570.00	85410.00	9040.00	86100.00	-5840.00	79860.00	63
64	-1935.00	58150.00	-11580.00	54710.00	5448.00	52340.00	64
65	-736.00	69780.00	-12030.00	66820.00	7253.00	63160.00	65
66	-2744.00	79000.00	-9788.00	72640.00	3632.00	70380.00	66
67	-11970.00	121100.00	9488.00	98210.00	-3128.00	97000.00	67
68	-2744.00	90230.00	-824.00	79820.00	480.00	79860.00	68
69	-4752.00	113100.00	9040.00	94160.00	1384.00	92490.00	69
70	-1536.00	146800.00	22500.00	122900.00	9048.00	120000.00	70
71	64.00	48980.00	-20110.00	71300.00	4088.00	70840.00	71
72	7286.00	68970.00	-20550.00	71750.00	7252.00	70380.00	72
73	1264.00	83810.00	-21450.00	84310.00	4992.00	86180.00	73
74	8084.00	71370.00	-24140.00	71750.00	3640.00	71290.00	74
75	1664.00	71380.00	-23110.00	76240.00	4984.00	74440.00	75
76	-1136.00	89420.00	-16960.00	80720.00	5888.00	75340.00	76
77	-336.00	78990.00	-25930.00	85200.00	4984.00	85270.00	77
78	3672.00	83820.00	-29070.00	76690.00	6344.00	81210.00	78
79	20110.00	79390.00	-27720.00	71750.00	21690.00	74890.00	79
80	12500.00	81410.00	-5752.00	80260.00	4088.00	76250.00	80

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TORGW 20800 TCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	263.20	264.90	262.80	1.07	1.11	.98	2
3	264.50	264.60	264.10	1.01	1.02	.99	3
4	264.20	264.40	264.10	1.00	1.01	.99	4
5	264.00	264.40	263.90	1.02	1.04	.98	5
6	264.30	264.60	264.10	1.01	1.02	.99	6
7	263.30	263.50	263.10	1.02	1.03	1.00	7
8	264.30	264.40	264.10	1.00	1.01	.98	8
9	264.30	264.40	264.30	1.03	1.04	1.01	9
10	264.20	264.40	264.10	1.02	1.04	1.00	10
11	264.30	264.40	264.10	1.00	1.01	.99	11
12	264.00	264.10	263.90	1.00	1.01	.99	12
13	264.10	264.30	263.90	.99	1.01	.97	13
14	264.20	264.60	263.30	.98	1.05	.95	14
15	264.20	264.30	263.70	1.01	1.03	1.00	15
16	264.00	264.30	263.90	1.00	1.01	.99	16
17	264.00	265.30	263.70	.95	1.03	.93	17
18	264.30	264.40	263.90	1.00	1.02	.98	18
19	263.40	264.90	262.40	1.03	1.11	.97	19
20	264.80	265.40	262.60	1.06	1.09	.97	20
21	264.10	264.30	263.70	1.01	1.02	1.00	21
22	259.90	260.10	259.40	.99	1.00	.98	22
23	263.50	265.40	261.60	1.02	1.12	.98	23
24	263.90	264.60	262.90	.95	1.11	.94	24
25	263.60	264.40	263.30	1.01	1.02	.98	25
26	264.00	264.40	263.50	1.00	1.02	.97	26
27	263.80	264.60	263.30	1.01	1.03	.95	27
28	264.20	264.30	264.10	1.00	1.03	.99	28
29	264.00	264.30	263.90	1.01	1.02	1.00	29
30	265.70	266.40	263.10	1.05	1.15	.86	30
31	266.90	270.40	262.90	1.08	1.24	.95	31
32	266.90	271.10	262.80	1.10	1.31	.93	32
33	264.30	265.10	262.80	1.06	1.08	.97	33
34	265.30	265.80	263.90	.98	1.05	.94	34
35	264.00	267.40	263.30	1.04	1.06	.97	35
36	260.20	262.90	259.20	1.06	1.07	1.01	36
37	279.80	280.80	275.40	.91	1.01	.89	37
38	273.60	280.90	271.90	1.08	1.19	.94	38
39	273.70	286.70	266.40	1.13	1.43	.92	39
40	274.10	274.40	271.60	1.00	1.01	.92	40
41	279.00	279.40	278.40	1.00	1.06	.95	41
42	268.00	275.50	261.60	1.11	1.17	.88	42
43	263.70	264.30	263.50	.97	1.02	.96	43
44	264.80	265.10	263.30	1.04	1.07	.92	44
45	264.30	264.40	263.30	1.05	1.11	.89	45
46	263.60	264.40	263.50	.97	1.06	.93	46
47	264.30	264.60	263.90	1.03	1.14	1.00	47
48	263.80	264.10	263.50	1.07	1.09	.98	48



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TSGW 20800 TRCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
49	263.90	264.40	263.70	.97	1.07	.93	49
50	263.80	264.40	263.70	.99	1.09	.89	50
51	264.30	264.40	263.70	.94	1.10	.92	51
52	264.80	264.90	264.30	.99	1.03	.95	52
53	264.10	264.30	263.90	1.02	1.03	1.00	53
54	264.80	265.60	263.70	.97	1.02	.94	54
55	264.70	264.90	263.70	1.02	1.03	.99	55
56	264.50	265.10	263.90	1.00	1.05	.97	56
57	264.10	264.60	263.50	.98	1.01	.95	57
58	245.90	247.50	245.30	1.06	1.10	.94	58
59	246.80	247.40	246.70	.99	1.01	.97	59
60	246.80	247.40	246.20	1.01	1.02	.98	60
61	247.60	248.40	246.70	.96	1.12	.90	61
62	247.40	247.70	247.20	.99	1.00	.94	62
63	264.10	264.40	263.70	1.07	1.10	.97	63
64	263.90	264.60	263.50	1.00	1.01	.96	64
65	264.80	265.40	264.30	1.02	1.04	.94	65
66	263.50	264.30	263.30	1.01	1.02	.98	66
67	264.80	265.10	263.90	1.14	1.16	.98	67
68	264.10	265.40	263.50	.96	.97	.92	68
69	263.80	264.60	263.50	.94	1.01	.88	69
70	264.10	264.30	263.90	.99	1.02	.98	70
71	277.40	277.60	276.70	.98	1.00	.95	71
72	279.40	280.80	278.00	1.07	1.17	1.00	72
73	277.70	285.80	259.90	1.46	1.62	.92	73
74	275.60	277.80	274.80	1.08	1.10	.97	74
75	279.50	280.80	279.30	.98	1.06	.93	75
76	276.50	279.30	275.70	.96	1.05	.89	76
77	275.10	286.50	262.00	1.53	1.83	.77	77
78	276.40	281.40	261.80	1.47	1.78	.85	78
79	277.10	286.30	255.70	1.15	1.64	1.06	79
80	264.80	267.00	261.30	.99	1.12	.92	80

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## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-1.64	.16	-2.30	-11.84	1.40	-13.99	2
3	-1.31	-.99	-1.64	-.32	.11	-.75	3
4	-3.03	-2.13	-4.59	.20	.89	-.23	4
5	.98	1.31	-.17	-1.57	1.75	-2.13	5
6	.90	1.80	.16	-1.61	-.32	-2.13	6
7	-.91	-.00	-1.48	1.06	2.43	.28	7
8	.73	.98	.16	6.52	6.91	5.79	8
9	2.29	2.45	1.63	4.93	6.22	4.50	9
10	-2.38	-1.48	-3.11	6.99	8.20	6.82	10
11	-1.81	-1.31	-2.13	3.04	3.98	2.69	11
12	-1.15	-.99	-2.30	4.46	5.27	4.15	12
13	1.63	2.78	1.31	2.86	4.67	2.52	13
14	-.17	1.31	-.82	4.41	7.60	3.04	14
15	-.82	-.33	-.99	4.71	5.53	4.15	15
16	.73	.98	.32	3.81	4.33	3.12	16
17	-.17	-.00	-1.15	.46	4.50	-.92	17
18	-.17	.49	-.33	-1.01	2.18	-1.61	18
19	3.11	12.11	-.66	8.33	11.21	3.72	19
20	-10.32	6.22	-16.87	5.79	7.34	2.86	20
21	.65	1.63	.49	6.48	6.91	4.67	21
22	-.17	.49	-1.48	6.09	7.25	5.27	22
23	8.26	20.79	-.33	8.20	11.21	4.07	23
24	-2.62	2.45	-20.80	7.64	8.45	2.09	24
25	-1.48	-.00	-2.95	3.85	5.02	3.21	25
26	-.58	-.00	-.82	3.72	5.44	3.29	26
27	-.58	1.31	-1.97	3.47	4.07	2.43	27
28	-1.64	-.50	-2.13	3.25	4.15	2.09	28
29	.65	1.31	-1.31	4.59	5.27	3.98	29
30	-.17	1.14	-1.31	-4.06	7.85	-7.80	30
31	1.31	1.47	.32	3.21	4.59	2.52	31
32	-.74	.16	-.99	2.78	5.96	2.09	32
33	-.17	.16	-.50	4.97	5.88	3.12	33
34	-.17	1.14	-.66	6.95	7.68	5.96	34
35	-2.30	-.82	-2.62	6.69	7.34	6.31	35
36	-1.64	1.47	-2.13	-.40	3.64	-1.26	36
37	-1.81	-1.64	-2.30	6.13	7.51	5.19	37
38	3.92	34.21	-3.44	4.24	5.44	-1.87	38
39	-16.13	2.61	-39.13	-7.37	13.79	-10.21	39
40	.16	.81	-1.48	7.08	7.60	5.88	40
41	2.45	3.11	1.80	6.52	7.25	5.79	41
42	.81	3.76	-.00	3.04	5.79	2.26	42
43	-.17	2.12	-.99	-.83	.71	-1.78	43
44	-.17	1.31	-.33	-2.64	-.66	-5.22	44
45	-.17	.49	-.50	-3.41	-1.87	-7.28	45
46	-.66	1.80	-.99	-6.30	-5.31	-7.54	46
47	-1.81	1.80	-2.13	-7.80	-2.64	-8.06	47
48	-.17	.32	-.99	-6.12	-5.05	-6.68	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 124

TOW 20800 TMC 9.7 AFT FLIGHT DATE 08/11/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
49	-.91	-.50	-1.31	-7.97	-6.43	-8.75	49
50	-.17	.98	-.66	-8.66	-6.43	-9.95	50
51	.90	1.14	-.00	-8.45	-5.91	-8.75	51
52	-.33	.49	-.50	.93	1.57	-1.18	52
53	.49	1.14	-.00	2.91	3.81	.89	53
54	.81	2.61	-1.64	2.26	3.81	1.57	54
55	-.66	-.17	-3.28	3.55	4.24	2.95	55
56	-.25	.32	-1.31	4.20	6.48	3.64	56
57	-.66	.16	-1.97	5.83	6.31	4.50	57
58	-1.89	.49	-3.93	-4.06	3.64	-4.62	58
59	1.63	1.96	-.17	-.71	-.15	-2.30	59
60	-.25	.98	-.66	-3.07	-2.38	-3.93	60
61	.49	1.47	-1.48	-7.59	-2.13	-7.89	61
62	-.17	.81	-1.15	-.36	.28	-2.21	62
63	-1.31	-.17	-1.48	-2.25	-.83	-3.76	63
64	1.63	3.43	.81	2.43	3.04	1.14	64
65	-.66	-.17	-1.31	-1.35	-.23	-1.95	65
66	-.99	-.82	-2.79	-1.78	-.83	-2.21	66
67	-.74	-.50	-1.48	-2.60	-1.78	-4.88	67
68	-1.15	-.82	-1.48	-5.05	-4.10	-5.39	68
69	-.66	1.80	-1.97	-8.36	-5.56	-8.92	69
70	-1.81	.98	-1.97	-7.46	-6.77	-8.58	70
71	1.39	9.00	-2.46	5.32	5.53	2.35	71
72	20.29	36.34	19.64	4.11	4.50	3.21	72
73	-16.30	.49	-49.45	-3.50	4.07	-11.16	73
74	-1.15	.65	-2.95	4.97	5.62	3.90	74
75	3.35	3.76	1.96	4.46	5.10	3.55	75
76	1.22	2.45	.49	1.83	2.86	1.06	76
77	.49	2.29	-.66	-5.31	3.55	-14.17	77
78	2.12	3.43	1.47	-1.18	2.52	-1.69	78
79	-13.59	-3.61	-53.38	-7.59	2.26	-14.85	79
80	-.17	3.60	-1.48	5.79	11.55	-.49	80



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 126

TOWW 20800 TOW 9.7 AFT FLIGHT DATE 08/11/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	146700.00	20100.00	230800.00	140100.00	-2712.00	84820.00	2
4	244500.00	12320.00	243300.00	230800.00	5776.00	44190.00	4
5	253500.00	14910.00	272300.00	230800.00	-474.00	48660.00	5
6	263900.00	69370.00	343600.00	160800.00	2204.00	43300.00	6
7	254800.00	51220.00	372200.00	177700.00	52190.00	121000.00	7
8	220500.00	12960.00	245100.00	201000.00	-27.50	58930.00	8
9	142100.00	11670.00	182900.00	142700.00	-2712.00	74100.00	9
10	140100.00	7784.00	151800.00	111600.00	-2272.00	71870.00	10
11	218500.00	13620.00	238600.00	199700.00	4872.00	74550.00	11
12	274900.00	15560.00	290500.00	246400.00	7104.00	73220.00	12
13	291100.00	22700.00	317700.00	263300.00	13350.00	79460.00	13
14	284600.00	24640.00	328100.00	255500.00	14250.00	78560.00	14
15	298300.00	28530.00	341100.00	267200.00	12460.00	82140.00	15
16	302800.00	34360.00	350100.00	246400.00	12460.00	85710.00	16
17	200400.00	12320.00	225700.00	137500.00	864.00	81250.00	17
18	177000.00	17500.00	203600.00	116800.00	-32.00	72320.00	18
19	197800.00	31770.00	246400.00	119300.00	3536.00	76780.00	19
20	179600.00	21390.00	238600.00	124500.00	408.00	79020.00	20
21	140700.00	25280.00	208800.00	101200.00	9784.00	80360.00	21
22	131700.00	16210.00	207500.00	41560.00	-7624.00	88840.00	22
23	233400.00	25930.00	274900.00	173800.00	-1376.00	78130.00	23
24	233400.00	33710.00	324200.00	179000.00	-4504.00	91960.00	24
25	180900.00	11020.00	203600.00	93410.00	-3608.00	74100.00	25
26	192000.00	12960.00	247700.00	166000.00	-32.00	81250.00	26
27	142000.00	20100.00	194500.00	64890.00	-1824.00	86610.00	27
28	223100.00	20750.00	247200.00	150500.00	2640.00	84820.00	28
29	223100.00	18160.00	272300.00	99890.00	-2272.00	99550.00	29
30	150500.00	19450.00	277500.00	50630.00	-928.00	89280.00	30
31	240700.00	20750.00	291800.00	239900.00	23630.00	79910.00	31
32	263300.00	22040.00	290500.00	241200.00	33900.00	79460.00	32
33	274200.00	32410.00	315100.00	225700.00	10230.00	72760.00	33
34	245900.00	27230.00	294400.00	238600.00	8000.00	74990.00	34
35	123200.00	26300.00	249700.00	33780.00	8449.00	70980.00	35
36	179600.00	23980.00	208800.00	33780.00	-928.00	70530.00	36

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 126  
TCGW 20800 TCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	19650.00	80510.00	-13990.00	98740.00	9144.00	97190.00	2
4	-3996.00	48670.00	-76.00	49820.00	-12840.00	55850.00	4
5	-1267.00	55040.00	-6809.00	52960.00	-9317.00	61130.00	5
6	4646.00	41850.00	-4565.00	49820.00	-2719.00	49260.00	6
7	7824.00	110500.00	52430.00	134700.00	8272.00	120100.00	7
8	4465.00	56400.00	-8159.00	66880.00	-1400.00	65530.00	8
9	8740.00	73230.00	-12210.00	85280.00	2532.00	86200.00	9
10	9649.00	72320.00	-11750.00	82140.00	1232.00	84000.00	10
11	7824.00	74140.00	-528.00	86180.00	-88.00	83560.00	11
12	9642.00	73220.00	3952.00	85280.00	2992.00	84000.00	12
13	6920.00	81420.00	10690.00	93810.00	6064.00	95870.00	13
14	7824.00	80510.00	9336.00	96950.00	3864.00	95430.00	14
15	11920.00	82780.00	10690.00	96500.00	10020.00	97190.00	15
16	10550.00	87780.00	7096.00	106400.00	8272.00	104200.00	16
17	12830.00	77320.00	-8160.00	94700.00	7824.00	89710.00	17
18	13740.00	69130.00	-12660.00	83940.00	3872.00	84880.00	18
19	16920.00	75050.00	-5920.00	91570.00	13540.00	84870.00	19
20	12830.00	77320.00	-15340.00	92020.00	3424.00	94110.00	20
21	18290.00	80960.00	368.00	96050.00	15300.00	95430.00	21
22	13290.00	87780.00	-22980.00	105000.00	4312.00	108200.00	22
23	4456.00	77320.00	-8168.00	88420.00	-2728.00	90600.00	23
24	4000.00	89600.00	-13100.00	105900.00	-3168.00	105100.00	24
25	8285.00	73680.00	-13100.00	84380.00	-2728.00	87080.00	25
26	11010.00	79140.00	-12210.00	94260.00	352.00	94560.00	26
27	14190.00	86880.00	-12200.00	100500.00	4312.00	102900.00	27
28	4456.00	82780.00	-5472.00	95600.00	792.00	95000.00	28
29	16010.00	97780.00	-14450.00	118000.00	7832.00	118700.00	29
30	14460.00	86420.00	-9960.00	103700.00	6512.00	106900.00	30
31	-5368.00	85510.00	26410.00	90670.00	-15040.00	93230.00	31
32	-4008.00	75960.00	-21180.00	94260.00	-20760.00	100700.00	32
33	12360.00	75050.00	4408.00	87530.00	9152.00	87520.00	33
34	7368.00	76410.00	6200.00	87530.00	-9320.00	99830.00	34
35	1456.00	72320.00	1704.00	89320.00	3872.00	86640.00	35
36	3733.00	69130.00	-10860.00	81240.00	-9768.00	82680.00	36

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 126  
TOW 20800 TDCR 9.7 AFT FLIGHT DATE 08/11/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	297800.00	15380.00	361800.00	273400.00	5600.00	84910.00	2
4	309300.00	10260.00	323400.00	299000.00	3636.00	30020.00	4
5	320200.00	14740.00	340000.00	291300.00	4426.00	33970.00	5
6	308600.00	63450.00	411800.00	240100.00	-1394.00	32390.00	6
7	322100.00	49990.00	406700.00	233600.00	33260.00	81750.00	7
8	345800.00	9608.00	356700.00	323400.00	4821.00	43840.00	8
9	269500.00	14100.00	290100.00	245200.00	4024.00	78600.00	9
10	206100.00	14740.00	229800.00	191400.00	-320.00	82940.00	10
11	271500.00	17300.00	295200.00	247800.00	4416.00	90050.00	11
12	318300.00	20510.00	345200.00	292600.00	11920.00	89650.00	12
13	346500.00	34610.00	381100.00	305400.00	18240.00	119700.00	13
14	342000.00	30120.00	372100.00	300300.00	19430.00	120900.00	14
15	340000.00	34610.00	386200.00	305400.00	34820.00	124400.00	15
16	348900.00	53190.00	422100.00	284900.00	29700.00	164300.00	16
17	272100.00	16660.00	326000.00	245200.00	464.00	83730.00	17
18	292600.00	17940.00	334900.00	245200.00	1648.00	76220.00	18
19	309300.00	30760.00	372100.00	251600.00	9553.00	62000.00	19
20	298400.00	22430.00	355400.00	267000.00	-320.00	86100.00	20
21	34000.00	16000.00	384900.00	226000.00	72.00	93610.00	21
22	227200.00	23070.00	250300.00	163200.00	-5036.00	135100.00	22
23	304800.00	19870.00	324700.00	234900.00	2048.00	87680.00	23
24	378500.00	39740.00	440000.00	238800.00	5208.00	109000.00	24
25	147800.00	19230.00	283600.00	174700.00	-3080.00	98340.00	25
26	318300.00	19230.00	337500.00	242600.00	2048.00	99520.00	26
27	252200.00	18590.00	273400.00	204200.00	4416.00	100300.00	27
28	301000.00	27560.00	350300.00	226000.00	-3480.00	123500.00	28
29	245700.00	34610.00	414400.00	229800.00	-7040.00	127600.00	29
30	311800.00	30760.00	367000.00	213200.00	-7032.00	150500.00	30
31	313100.00	21790.00	343900.00	276000.00	9952.00	83730.00	31
32	308000.00	25630.00	350300.00	282400.00	14290.00	92820.00	32
33	315000.00	39100.00	354100.00	264400.00	18640.00	94000.00	33
34	313800.00	37820.00	351600.00	276000.00	11140.00	87280.00	34
35	256100.00	66010.00	322100.00	50360.00	17060.00	185600.00	35
36	172100.00	30770.00	358000.00	117000.00	72.00	85700.00	36



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 126  
TEGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	448.00	87020.00	-8368.00	78450.00	8184.00	79370.00	2
4	-1550.00	33690.00	-7462.00	29140.00	9091.00	31570.00	4
5	-3155.00	36090.00	-8807.00	31380.00	5483.00	31570.00	5
6	6471.00	32890.00	-13290.00	33170.00	13600.00	32470.00	6
7	12480.00	83820.00	24220.00	66340.00	23970.00	74410.00	7
8	5669.00	40910.00	-3876.00	41690.00	10440.00	40140.00	8
9	848.00	81810.00	-6568.00	73060.00	9088.00	74860.00	9
10	1248.00	87020.00	-11950.00	75760.00	10440.00	78920.00	10
11	-2360.00	95450.00	-7024.00	79790.00	5480.00	88390.00	11
12	-4368.00	91040.00	1944.00	77100.00	968.00	83880.00	12
13	-11180.00	116300.00	10460.00	108000.00	-7152.00	103700.00	13
14	-9976.00	119900.00	5080.00	104400.00	-6248.00	107300.00	14
15	-2968.00	127500.00	17640.00	99960.00	-384.00	108700.00	15
16	-5168.00	153600.00	10020.00	147000.00	7728.00	128500.00	16
17	-752.00	90640.00	-8368.00	78450.00	2768.00	83890.00	17
18	2856.00	77400.00	-9255.00	73960.00	3216.00	75310.00	18
19	4465.00	61360.00	-1635.00	60960.00	12240.00	55470.00	19
20	-4768.00	91440.00	-5232.00	83380.00	64.00	87490.00	20
21	6064.00	95860.00	-11950.00	90990.00	14490.00	88390.00	21
22	-2760.00	140000.00	-14640.00	125100.00	3672.00	128100.00	22
23	-1960.00	92650.00	-7024.00	79790.00	4576.00	82980.00	23
24	-11580.00	111900.00	-2536.00	98620.00	-5800.00	102400.00	24
25	-7176.00	102700.00	-8816.00	87860.00	1416.00	95160.00	25
26	-1552.00	103500.00	-12850.00	90990.00	2776.00	95610.00	26
27	-3560.00	108700.00	-6576.00	93680.00	2320.00	101500.00	27
28	-12980.00	125200.00	-7464.00	125100.00	-16620.00	127600.00	28
29	-11180.00	137200.00	-6576.00	122400.00	-15720.00	134800.00	29
30	-11980.00	159600.00	-18670.00	139900.00	-6696.00	151100.00	30
31	848.00	85020.00	1048.00	73510.00	968.00	76660.00	31
32	-10780.00	93440.00	1496.00	84710.00	-11210.00	87940.00	32
33	-1960.00	95050.00	9568.00	82030.00	3672.00	87500.00	33
34	1648.00	84220.00	1496.00	79340.00	-7608.00	78920.00	34
35	11670.00	181700.00	-10610.00	163200.00	7280.00	161500.00	35
36	2448.00	85020.00	-10610.00	86960.00	10430.00	82530.00	36

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 126

TUGW 20800 TMC 9.7 AFT FLIGHT DATE 08/11/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.30	263.70	1.01	1.09	.95	2
4	264.00	264.10	263.50	.99	1.00	.98	4
5	263.60	264.30	263.10	1.00	1.02	.97	5
6	264.30	265.10	263.50	1.00	1.06	.93	6
7	264.00	265.30	262.90	.98	1.03	.97	7
8	263.50	264.10	263.30	1.02	1.03	1.00	8
9	264.70	264.90	264.10	1.05	1.11	1.03	9
10	263.90	264.10	262.80	1.02	1.06	.96	10
11	264.30	264.40	263.30	1.03	1.11	.92	11
12	264.10	264.30	263.50	1.00	1.09	.92	12
13	264.10	264.40	263.90	1.06	1.09	.99	13
14	264.10	264.90	263.90	1.03	1.12	.90	14
15	264.20	264.40	263.50	1.01	1.06	.84	15
16	264.00	264.40	263.70	1.10	1.19	.96	16
17	264.30	264.90	263.10	1.20	1.32	1.04	17
18	263.30	264.30	263.10	1.10	1.30	1.05	18
19	263.50	264.60	262.60	1.03	1.20	.98	19
20	264.80	265.40	262.60	1.34	1.39	1.03	20
21	264.60	265.40	262.80	1.16	1.38	.99	21
22	266.60	269.60	261.40	.87	1.51	.68	22
23	264.50	269.40	262.80	.92	1.07	.90	23
24	267.70	271.80	262.20	1.20	1.51	.98	24
25	264.80	266.20	262.20	1.26	1.34	1.02	25
26	263.10	264.40	262.20	1.16	1.25	1.02	26
27	264.60	266.60	261.60	1.21	1.47	1.03	27
28	264.20	264.40	262.20	1.23	1.52	1.07	28
29	264.30	267.00	261.60	1.17	1.63	1.05	29
30	265.20	269.60	262.40	1.40	1.74	.99	30
31	263.20	264.40	262.90	.96	1.02	.94	31
32	264.20	264.40	263.90	1.05	1.09	1.00	32
33	263.90	265.10	263.50	1.04	1.13	.98	33
34	264.40	264.90	263.90	1.01	1.05	.97	34
35	267.70	270.10	263.90	1.05	1.61	.82	35
36	264.70	266.00	261.40	1.06	1.14	.93	36

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 126

TOW 20800 THCG 9.7 AFT FLIGHT DATE 08/11/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.25	1.63	-2.30	-2.38	-.06	-4.27	2
4	-2.46	-1.81	-3.11	2.13	2.52	2.00	4
5	-1.81	-.82	-2.46	2.61	3.64	2.43	5
6	-.33	-.00	-.82	3.04	4.33	1.92	6
7	-2.38	-.99	-3.93	5.10	5.70	3.90	7
8	-1.64	-1.48	-1.81	1.70	2.52	.46	8
9	-2.54	-1.97	-3.11	1.70	4.67	1.40	9
10	-2.05	-.82	-2.30	-3.93	-2.21	-4.53	10
11	.24	.81	-.50	-1.61	-1.18	-5.05	11
12	.57	1.14	.16	-6.08	-4.36	-6.77	12
13	-1.07	-.33	-1.31	-6.77	-6.43	-7.46	13
14	-.17	.81	-.33	-7.80	-6.43	-9.69	14
15	-1.56	-.50	-2.79	-9.05	-5.82	-9.35	15
16	-1.31	.49	-1.64	-7.46	-3.50	-9.61	16
17	-9.50	35.36	-38.48	5.75	8.37	-3.33	17
18	-18.75	-3.44	-38.64	-.02	14.91	-4.88	18
19	19.72	28.48	17.18	11.77	16.63	8.37	19
20	-22.11	-19.82	-46.34	.93	11.55	-7.28	20
21	18.33	42.89	-.82	3.42	12.67	1.14	21
22	-.17	.49	-.82	-.71	7.25	-15.89	22
23	-1.81	-1.31	-2.13	-3.24	-2.90	-4.45	23
24	-.82	-.00	-1.64	-2.60	-1.61	-4.27	24
25	-26.37	-18.83	-32.75	-1.74	2.78	-6.34	25
26	9.74	36.99	-10.97	-2.04	2.86	-10.30	26
27	-24.48	14.73	-44.86	-.92	3.90	-3.59	27
28	10.31	51.07	-7.04	-8.15	2.52	-11.76	28
29	-34.06	-2.79	-57.47	5.23	8.89	-4.88	29
30	33.80	54.02	-4.75	3.21	7.77	-3.59	30
31	-5.90	-2.95	-6.88	-6.81	-6.68	-7.20	31
32	-3.28	-2.13	-3.77	-5.35	-5.05	-6.43	32
33	-1.72	-1.31	-2.13	-4.79	-2.90	-5.39	33
34	-.41	-.17	-1.31	-4.36	-3.93	-4.88	34
35	-2.30	-.82	-4.10	-4.53	2.86	-18.64	35
36	-3.44	.49	-5.24	4.03	6.91	-1.35	36



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 127

TSGW 20800 TSCR 9.7 AFT FLIGHT DATE 08/15/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	135000.00	8416.00	149900.00	125300.00	7207.00	72350.00	2
3	175200.00	9712.00	192600.00	162900.00	5840.00	80990.00	3
4	177100.00	10350.00	191300.00	146000.00	6752.00	81900.00	4
5	234700.00	12300.00	253400.00	214600.00	5832.00	79180.00	5
6	213300.00	20700.00	252100.00	179700.00	4016.00	80990.00	6
7	142800.00	11000.00	145400.00	129200.00	8122.00	68710.00	7
8	107900.00	11000.00	125300.00	89100.00	2200.00	72810.00	8
9	42520.00	7764.00	50290.00	30880.00	3572.00	59610.00	9
10	284500.00	27170.00	318100.00	212000.00	2200.00	77350.00	10
11	192900.00	25880.00	241800.00	129200.00	5840.00	78270.00	11
12	151200.00	23300.00	253400.00	29580.00	10850.00	75990.00	12

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CH-46 COMPOSITE ROTOR BLADE FLIGHT STRESS SURVEY DATA, VOLUME X--ETC(U)

1978 R AIELLO, J BENDO

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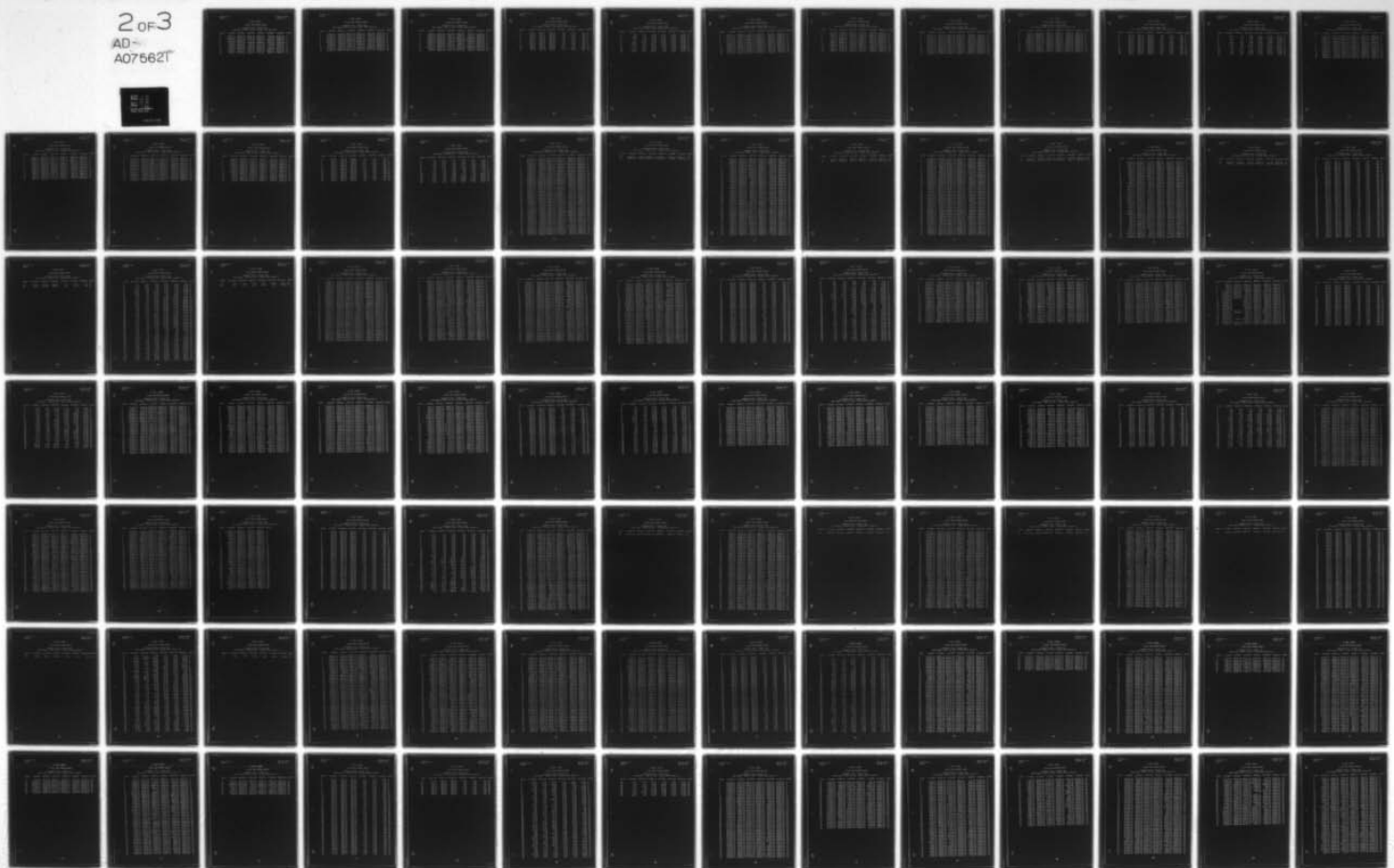
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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 127  
TSGW 20800 TSCR 9.7 AFT FLIGHT DATE 08/15/77

EVENT	*1170SDY	*1170ALT	*1870SDY	*1870ALT	*1880SDY	*1880ALT	EVENT
2	-4672.00	73330.00	-5696.00	83150.00	4968.00	84090.00	2
3	-4224.00	82720.00	-7048.00	94390.00	4088.00	94650.00	3
4	-3776.00	84060.00	-6144.00	97090.00	3648.00	95090.00	4
5	-1088.00	82270.00	144.00	94380.00	8488.00	88490.00	5
6	2040.00	80940.00	5088.00	93940.00	5408.00	90690.00	6
7	248.00	71100.00	592.00	81360.00	6728.00	78810.00	7
8	5178.00	70650.00	4632.00	80010.00	120.00	79240.00	8
9	4731.00	56790.00	5090.00	64270.00	2768.00	66910.00	9
10	12770.00	73770.00	8680.00	90340.00	2328.00	91130.00	10
11	7408.00	75570.00	10480.00	91250.00	10250.00	92890.00	11
12	3384.00	76900.00	-1208.00	86740.00	8928.00	83650.00	12



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FLIGHT LOADS

CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 127  
TGGW 20800 TSCR 9.7 AFT FLIGHT DATE 08/15/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	214600.00	10260.00	232000.00	198600.00	-504.00	79700.00	2
3	242900.00	13480.00	257600.00	224300.00	-2872.00	97060.00	3
4	233200.00	12830.00	247300.00	199900.00	-120.00	103000.00	4
5	291600.00	17330.00	320500.00	273000.00	5408.00	101400.00	5
6	284600.00	23100.00	328200.00	240900.00	18030.00	133800.00	6
7	205000.00	11540.00	226800.00	183200.00	1864.00	89180.00	7
8	140800.00	8984.00	146500.00	131900.00	5016.00	81290.00	8
9	68990.00	10260.00	86940.00	58720.00	-7210.00	68260.00	9
10	321100.00	21440.00	352600.00	237100.00	12120.00	108900.00	10
11	297400.00	35940.00	342300.00	179300.00	27500.00	153500.00	11
12	321800.00	21820.00	347400.00	122900.00	-11170.00	81680.00	12

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 127  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/15/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-288.00	83890.00	-4097.00	69550.00	3176.00	74040.00	2
3	-2288.00	100400.00	-6336.00	83460.00	1368.00	88490.00	3
4	-4304.00	106400.00	-5896.00	89290.00	-888.00	94360.00	4
5	-8312.00	104000.00	4424.00	88840.00	-6752.00	95710.00	5
6	-12130.00	132900.00	7560.00	109900.00	-19400.00	112900.00	6
7	-3896.00	92310.00	-6792.00	79420.00	1368.00	84870.00	7
8	-2096.00	84300.00	-3200.00	75820.00	3176.00	82170.00	8
9	11360.00	68240.00	-13070.00	68660.00	16270.00	66370.00	9
10	-10710.00	113600.00	14740.00	99160.00	-10820.00	104300.00	10
11	-9520.00	138900.00	10700.00	135500.00	4528.00	118700.00	11
12	5336.00	78260.00	-17550.00	82110.00	7232.00	77200.00	12

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 127  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/15/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.10	264.40	.96	1.00	.94	2
3	264.10	264.40	263.30	.98	1.00	.93	3
4	264.80	265.40	264.30	.95	1.01	.94	4
5	263.50	263.70	263.10	.99	1.02	.94	5
6	264.70	265.30	263.70	.95	1.07	.90	6
7	264.40	264.60	263.90	.95	1.02	.90	7
8	263.10	264.30	262.90	1.00	1.07	.97	8
9	265.10	265.40	264.30	.97	.98	.94	9
10	264.30	265.40	263.50	1.11	1.17	.84	10
11	268.30	268.80	264.90	1.27	1.35	1.05	11
12	264.20	264.90	261.60	1.01	1.09	.95	12



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 127  
TSGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/15/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	.85	1.09	-.05	-1.15	-.34	-1.36	2
3	-.38	.11	-1.36	-2.43	-2.22	-3.41	3
4	-.05	.93	-.38	-2.60	-2.05	-3.24	4
5	.36	1.58	-.54	-3.54	-2.65	-5.90	5
6	-.13	1.09	-1.68	-4.53	-.76	-4.87	6
7	-3.48	-2.82	-4.13	-1.92	-1.62	-2.39	7
8	-2.09	.60	-5.11	-1.83	-1.45	-2.39	8
9	.60	1.91	-.21	-.38	-.25	-1.53	9
10	-.46	1.09	-1.52	-4.87	-.76	-6.58	10
11	-1.36	-.54	-3.15	.52	5.82	-1.36	11
12	-1.36	2.40	-2.01	7.83	8.13	3.77	12

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FLIGHT LOADS

CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 128  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/18/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	144900.00	12260.00	170800.00	134700.00	-1720.00	73400.00	2
4	226400.00	12920.00	239300.00	207000.00	3648.00	75180.00	4
5	251600.00	21310.00	247100.00	230300.00	7232.00	74290.00	5
6	291000.00	27130.00	336200.00	252200.00	7232.00	77870.00	6
7	307100.00	22600.00	329700.00	266400.00	10820.00	80560.00	7
8	306500.00	23250.00	322300.00	271600.00	6336.00	82350.00	8
9	297400.00	29710.00	347800.00	248300.00	10810.00	83240.00	9
10	285800.00	33580.00	322300.00	234100.00	9920.00	89500.00	10
11	308400.00	21310.00	327500.00	285800.00	10810.00	68920.00	11
12	286400.00	27770.00	347800.00	244500.00	11710.00	71600.00	12
13	289000.00	17440.00	306500.00	261200.00	4992.00	75630.00	13
14	304500.00	22610.00	328400.00	275500.00	7232.00	79660.00	14

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 128

TGGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/18/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	8174.00	70980.00	-6120.00	84100.00	5056.00	84140.00	2
4	5440.00	73710.00	-4328.00	85000.00	6816.00	85020.00	4
5	6808.00	74170.00	7376.00	86800.00	7696.00	89420.00	5
6	888.00	80090.00	1520.00	98940.00	6824.00	94710.00	6
7	3616.00	82820.00	-720.00	103000.00	5056.00	97360.00	7
8	5896.00	81450.00	1520.00	103400.00	6816.00	96480.00	8
9	2256.00	85090.00	-3424.00	110200.00	2416.00	100000.00	9
10	-928.00	91010.00	3768.00	109300.00	648.00	107900.00	10
11	7271.00	70990.00	-1624.00	95800.00	8136.00	88100.00	11
12	1808.00	74620.00	-1176.00	97140.00	7256.00	90740.00	12
13	5896.00	75080.00	5120.00	88140.00	7656.00	87660.00	13
14	8168.00	79180.00	-7024.00	103000.00	9024.00	93390.00	14



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CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 128  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/18/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	222500.00	12180.00	228500.00	239000.00	-688.00	80160.00	2
4	272500.00	16020.00	288500.00	253900.00	6024.00	75030.00	4
5	294200.00	21790.00	325600.00	274400.00	12740.00	77790.00	5
6	371200.00	31410.00	403800.00	300000.00	17480.00	105400.00	6
7	349400.00	28840.00	393600.00	319200.00	10370.00	110200.00	7
8	361500.00	32050.00	393600.00	319200.00	-6208.00	101500.00	8
9	373700.00	36530.00	411500.00	302600.00	1688.00	129100.00	9
10	369200.00	42300.00	411500.00	300000.00	10370.00	117300.00	10
11	359000.00	26920.00	387200.00	319200.00	-2656.00	82930.00	11
12	380100.00	35260.00	415400.00	300000.00	5232.00	107400.00	12
13	342000.00	24350.00	365400.00	307700.00	-2264.00	84900.00	13
14	351300.00	30770.00	388400.00	312800.00	-10160.00	99900.00	14

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 128

TBGM 20800 TBGG 9.7 AFT FLIGHT DATE 08/18/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	2760.00	83460.00	-8424.00	72550.00	8192.00	75340.00	2
4	2360.00	79850.00	-816.00	69410.00	5928.00	73990.00	4
5	2368.00	82260.00	6352.00	72100.00	7736.00	76700.00	5
6	-8872.00	107900.00	13510.00	92700.00	-5800.00	102900.00	6
7	-5664.00	105500.00	-3048.00	107500.00	-4896.00	98350.00	7
8	-2048.00	91490.00	-16940.00	97180.00	-7608.00	85720.00	8
9	-15290.00	116000.00	-6632.00	120900.00	-24740.00	111000.00	9
10	-8872.00	116000.00	1872.00	106100.00	-8048.00	106900.00	10
11	1560.00	71830.00	-5296.00	74780.00	-20230.00	84820.00	11
12	-7272.00	103900.00	-360.00	96730.00	-4448.00	99710.00	12
13	-440.00	78650.00	-6184.00	79260.00	-11210.00	76700.00	13
14	-1248.00	82660.00	-13800.00	93140.00	-22040.00	92040.00	14

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 128

TSGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/18/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.30	264.60	263.50	.98	1.04	.96	2
4	264.30	264.40	263.90	.97	1.02	.95	4
5	264.80	264.90	263.70	.93	1.10	.86	5
6	264.60	264.90	263.50	1.01	1.10	.86	6
7	263.90	264.40	263.70	1.00	1.10	.94	7
8	264.20	264.40	263.90	1.03	1.09	.93	8
9	264.20	264.90	263.50	.98	1.17	.84	9
10	264.40	264.90	263.70	1.16	1.22	.94	10
11	264.00	264.40	263.90	.93	1.02	.89	11
12	264.60	265.10	263.70	1.05	1.18	.79	12
13	264.40	264.60	263.90	1.01	1.09	.94	13
14	264.10	264.30	263.70	1.01	1.04	.95	14



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 128

TGGW 20800 THCG 9.7 AFT FLIGHT DATE 08/18/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.49	.16	-.98	-1.61	-1.48	-2.70	2
4	-.41	.16	-.98	-5.05	-4.35	-5.66	4
5	-.16	.49	-.49	-6.27	-4.53	-7.32	5
6	.41	1.14	-.65	-5.31	-3.92	-8.10	6
7	-.16	.49	-.65	-6.79	-5.49	-7.23	7
8	-.16	.82	-.65	-6.18	-6.01	-7.14	8
9	-.57	.49	-1.47	-7.84	-4.44	-9.41	9
10	.16	1.14	-1.14	-7.58	-5.23	-8.89	10
11	.74	1.14	.33	-7.10	-6.01	-7.49	11
12	.25	1.31	-2.60	-5.14	-3.31	-9.24	12
13	-.41	.33	-.98	-6.01	-5.40	-7.23	13
14	-.81	-.49	-2.12	-8.23	-7.32	-8.45	14

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 132  
TSGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/24/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
3	217200.00	20690.00	237900.00	191300.00	-4375.00	43820.00	3
4	215900.00	16810.00	243100.00	199100.00	-6611.00	43370.00	4
5	208200.00	16810.00	250800.00	191300.00	-9741.00	45610.00	5
6	236600.00	14220.00	250800.00	212000.00	-11080.00	47840.00	6
7	148700.00	7760.00	156400.00	134400.00	-4375.00	69750.00	7
8	130600.00	10340.00	155100.00	115100.00	-2152.00	71100.00	8
9	119600.00	8408.00	128000.00	104700.00	-1256.00	71100.00	9
10	116300.00	10340.00	126700.00	96940.00	-1696.00	72430.00	10
11	128600.00	9696.00	146100.00	116400.00	-1248.00	81820.00	11
12	118300.00	8400.00	134400.00	104700.00	-2592.00	74220.00	12
13	129300.00	7760.00	139600.00	117600.00	-2592.00	72430.00	13
14	133800.00	7112.00	144800.00	124100.00	-3936.00	71090.00	14
15	144800.00	6472.00	157700.00	135700.00	-4376.00	70650.00	15
16	175200.00	8408.00	191300.00	164200.00	-2144.00	72880.00	16

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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 132  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/24/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
3	-1587.00	43670.00	-12100.00	54360.00	-6569.00	50210.00	3
4	-3862.00	46860.00	-6704.00	51660.00	-9211.00	54610.00	4
5	-2497.00	50950.00	-10750.00	55710.00	-8337.00	59900.00	5
6	-4771.00	51410.00	-11450.00	59300.00	-8777.00	61220.00	6
7	7508.00	68240.00	-10760.00	79060.00	2672.00	79710.00	7
8	10700.00	67780.00	-8504.00	80410.00	4432.00	81470.00	8
9	10240.00	66420.00	-8512.00	81310.00	4432.00	78830.00	9
10	11150.00	67330.00	-8064.00	81760.00	3992.00	80150.00	10
11	9320.00	79160.00	-8056.00	91640.00	6192.00	89410.00	11
12	9783.00	73240.00	-8056.00	84460.00	4000.00	84560.00	12
13	9782.00	72330.00	-10750.00	82660.00	3120.00	84560.00	13
14	8877.00	70520.00	-10300.00	81310.00	1352.00	82790.00	14
15	7966.00	70510.00	-10750.00	80860.00	-856.00	83240.00	15
16	9786.00	68690.00	-6712.00	83110.00	2672.00	80590.00	16



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 132  
TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/24/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
3	245300.00	15380.00	243500.00	247400.00	2985.00	29560.00	3
4	274800.00	12820.00	289600.00	260200.00	-168.50	17740.00	4
5	273600.00	12180.00	289600.00	256300.00	-2140.00	13400.00	5
6	280700.00	14090.00	294800.00	256300.00	-168.50	23260.00	6
7	245400.00	10890.00	256300.00	226900.00	-1358.00	65440.00	7
8	241600.00	14740.00	245300.00	225600.00	3380.00	50460.00	8
9	228800.00	13460.00	244800.00	214000.00	4168.00	44150.00	9
10	234500.00	13460.00	252500.00	219200.00	2591.00	35480.00	10
11	241000.00	8976.00	258900.00	232000.00	3774.00	50060.00	11
12	225600.00	7688.00	239700.00	216600.00	3380.00	50460.00	12
13	228800.00	7048.00	235800.00	214000.00	620.00	58730.00	13
14	210200.00	8976.00	225600.00	201200.00	-1752.00	68980.00	14
15	217900.00	11530.00	232000.00	205100.00	-2544.00	79230.00	15
16	247400.00	10250.00	257600.00	224300.00	1000.00	73320.00	16

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 132  
TCGW 20800 TBCr 9.7 AFT FLIGHT DATE 08/24/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
3	-877.50	31650.00	-6437.00	30910.00	-956.50	30670.00	3
4	-2881.00	18430.00	-1510.00	19710.00	-7723.00	19400.00	4
5	-1679.00	12420.00	-6885.00	17020.00	-1408.00	16690.00	5
6	-1278.00	22440.00	-3302.00	23290.00	-956.50	21650.00	6
7	-2488.00	67720.00	-7789.00	61830.00	2652.00	59540.00	7
8	-76.50	50880.00	-5541.00	47930.00	2201.00	45560.00	8
9	-4083.00	44470.00	-1958.00	41660.00	1750.00	40590.00	9
10	-6086.00	36860.00	-2854.00	34490.00	-3663.00	33380.00	10
11	-4083.00	47680.00	-1958.00	46140.00	847.50	45100.00	11
12	-76.50	53290.00	-4198.00	47490.00	4005.00	50970.00	12
13	1126.00	61700.00	-9573.00	55550.00	5809.00	57280.00	13
14	1112.00	72120.00	-10480.00	64520.00	8058.00	65850.00	14
15	712.00	82940.00	-11370.00	72580.00	7608.00	74420.00	15
16	1120.00	77730.00	-10480.00	68100.00	6260.00	70360.00	16

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 132  
TGW 25800 TCG 9.7 AFT FLIGHT DATE 08/24/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
3	263.20	264.40	262.90	.98	1.02	.97	3
4	263.80	264.30	263.50	1.00	1.01	.97	4
5	264.30	264.40	263.70	1.00	1.02	.98	5
6	264.10	264.40	263.90	1.01	1.02	.97	6
7	264.20	264.60	264.10	1.00	1.02	.96	7
8	264.80	265.10	264.10	1.00	1.01	.98	8
9	264.30	264.60	264.30	1.01	1.02	.98	9
10	264.00	264.40	263.90	.98	1.02	.97	10
11	264.00	264.60	263.90	1.01	1.06	.98	11
12	264.80	264.90	264.40	1.06	1.07	.98	12
13	263.90	264.60	263.70	.98	1.02	.97	13
14	264.30	264.60	264.30	.99	1.01	.97	14
15	263.90	264.40	263.70	1.02	1.03	.97	15
16	264.10	264.40	263.70	.96	1.00	.90	16



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 132  
TGW 20800 TCCG 9.7 AFT FLIGHT DATE 08/24/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
3	.02	2.10	-.73	5.73	6.51	4.43	3
4	.68	1.43	.27	5.12	6.34	4.78	4
5	.68	1.76	-.06	5.64	6.51	5.30	5
6	.68	1.27	-.23	6.47	7.55	5.73	6
7	.77	1.10	.10	-1.07	-.68	-2.59	7
8	.77	1.10	-.56	1.96	2.44	.79	8
9	.77	1.43	.10	1.18	1.57	-.08	9
10	-.40	.60	-.56	.88	1.66	.18	10
11	.60	.93	-.23	.05	1.66	-1.46	11
12	-.40	.27	-.89	-1.12	.88	-2.50	12
13	-.40	-.06	-1.06	-2.29	-.60	-3.11	13
14	-.40	.60	-.56	-2.98	-1.90	-3.63	14
15	-.40	.43	-1.06	-2.76	-1.55	-3.72	15
16	-.98	-.23	-1.39	-3.59	-2.24	-6.23	16

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TGW 20800 TCR 9.7 AFT FLIGHT DATE 08/25/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	213200.00	18150.00	239100.00	192400.00	-2654.00	49650.00	2
3	219000.00	12320.00	236500.00	192400.00	-6233.00	50540.00	3
4	215100.00	13620.00	237800.00	200200.00	-8916.00	46070.00	4
5	217000.00	16860.00	246900.00	196300.00	-11600.00	51440.00	5
6	128300.00	9720.00	139300.00	106900.00	-8472.00	74250.00	6
7	109500.00	7784.00	117200.00	95200.00	-4446.00	69330.00	7
8	116600.00	8432.00	128900.00	96500.00	-2216.00	73350.00	8
9	109500.00	9080.00	119800.00	92610.00	-2216.00	74250.00	9
10	158700.00	9072.00	174300.00	149600.00	-4008.00	75140.00	10
11	159400.00	9720.00	171700.00	148400.00	-2664.00	76490.00	11
12	143200.00	7776.00	153500.00	128900.00	-1320.00	75140.00	12
13	152900.00	8424.00	141300.00	138000.00	-2664.00	75590.00	13
14	240500.00	13610.00	278000.00	240400.00	6280.00	73800.00	14
15	249500.00	22030.00	279300.00	198900.00	1808.00	80960.00	15
16	248800.00	13610.00	247600.00	233900.00	7624.00	75140.00	16
17	219000.00	25280.00	282300.00	182000.00	8072.00	82740.00	17
18	238400.00	13610.00	259800.00	223500.00	8520.00	76940.00	18
19	191800.00	25280.00	259800.00	160000.00	6728.00	80500.00	19
20	309100.00	19450.00	333700.00	283200.00	5392.00	75580.00	20
21	279900.00	22680.00	328500.00	257200.00	7184.00	78270.00	21
22	308400.00	25280.00	325000.00	272800.00	11200.00	80510.00	22
23	292900.00	17500.00	316800.00	275400.00	7624.00	76040.00	23
24	288300.00	23330.00	324600.00	249500.00	6288.00	79170.00	24
25	292200.00	18140.00	316800.00	272800.00	8520.00	77830.00	25
26	294200.00	29170.00	321100.00	241700.00	10760.00	83640.00	26
27	294200.00	17500.00	323300.00	276700.00	7184.00	77380.00	27
28	314300.00	19450.00	326300.00	288300.00	5840.00	76930.00	28
29	122400.00	9080.00	135400.00	112000.00	-5342.00	69330.00	29
30	125700.00	8424.00	135400.00	116000.00	-4894.00	68880.00	30
31	117900.00	8432.00	127600.00	106900.00	-2664.00	71110.00	31
32	110100.00	8432.00	123700.00	101700.00	-872.00	74700.00	32
33	106900.00	10380.00	122400.00	93900.00	-872.00	73800.00	33
34	103000.00	10370.00	113300.00	87420.00	-3112.00	76040.00	34
35	113400.00	7784.00	122400.00	101700.00	-3560.00	73800.00	35
36	122400.00	7784.00	124100.00	114600.00	-3112.00	73350.00	36
37	124400.00	7128.00	135400.00	117200.00	-3560.00	72010.00	37
38	128900.00	7776.00	139300.00	119800.00	-4896.00	71570.00	38
39	152900.00	7128.00	140000.00	144500.00	-880.00	68430.00	39
40	150900.00	7776.00	158700.00	140600.00	-872.00	69320.00	40
41	149000.00	8424.00	158700.00	139300.00	-872.00	71110.00	41
42	143200.00	9072.00	152200.00	130200.00	24.00	71110.00	42
43	156800.00	7128.00	170400.00	149600.00	-2656.00	68430.00	43
44	240400.00	14260.00	254600.00	218400.00	4048.00	70670.00	44
45	240400.00	14260.00	254600.00	220900.00	4048.00	69780.00	45
46	212500.00	20100.00	275400.00	182000.00	4936.00	74250.00	46
47	230700.00	13610.00	245600.00	217100.00	4500.00	69320.00	47
48	195700.00	18790.00	246300.00	171700.00	4944.00	75140.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133

TSGW 20800 TDCR 9.7 AFT FLIGHT DATE 08/25/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
49	222200.00	14260.00	237800.00	202800.00	7180.00	72000.00	49
50	200800.00	17500.00	253300.00	174300.00	6736.00	77820.00	50



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TCGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	-3616.00	50990.00	-10950.00	57540.00	-2252.00	59040.00	2
3	-1795.00	50080.00	-6908.00	60690.00	-5784.00	59930.00	3
4	-2705.00	48260.00	-9152.00	54850.00	-4896.00	57280.00	4
5	-7258.00	53720.00	-11400.00	62490.00	-11510.00	63890.00	5
6	9131.00	73750.00	-13210.00	84970.00	7432.00	87240.00	6
7	8214.00	67370.00	-8712.00	79580.00	3912.00	80180.00	7
8	9127.00	69190.00	-6464.00	83620.00	5664.00	82830.00	8
9	9583.00	69650.00	-6016.00	84060.00	6104.00	83270.00	9
10	10040.00	71020.00	-6912.00	85870.00	6992.00	85040.00	10
11	7760.00	74210.00	-5568.00	88110.00	6112.00	85040.00	11
12	6392.00	73750.00	-5560.00	86310.00	5224.00	83270.00	12
13	6848.00	74210.00	-2872.00	86310.00	5672.00	84600.00	13
14	5024.00	76030.00	4776.00	89460.00	6552.00	89880.00	14
15	5024.00	80580.00	728.00	93510.00	4792.00	92520.00	15
16	5480.00	76490.00	3880.00	89460.00	6112.00	90320.00	16
17	16.00	88320.00	6128.00	98000.00	-4464.00	102700.00	17
18	2752.00	78300.00	5224.00	89910.00	4352.00	92080.00	18
19	-432.00	84220.00	2976.00	93950.00	-1816.00	97370.00	19
20	7304.00	76490.00	5672.00	89460.00	5232.00	90320.00	20
21	2296.00	81500.00	4328.00	94410.00	-56.00	95610.00	21
22	-1800.00	84680.00	8824.00	93510.00	-3144.00	97820.00	22
23	3664.00	78300.00	7928.00	89910.00	2592.00	91200.00	23
24	928.00	81040.00	8824.00	94410.00	-496.00	94290.00	24
25	2752.00	80130.00	4776.00	93960.00	3024.00	95170.00	25
26	-2720.00	87410.00	3424.00	97100.00	-3144.00	101300.00	26
27	7296.00	78300.00	6128.00	91710.00	6112.00	92080.00	27
28	6848.00	76940.00	4776.00	89460.00	5232.00	90320.00	28
29	8670.00	67830.00	-13200.00	78670.00	384.00	79310.00	29
30	8670.00	67830.00	-14550.00	79130.00	824.00	79750.00	30
31	10040.00	68280.00	-10950.00	80920.00	1704.00	80630.00	31
32	11860.00	70110.00	-8712.00	84070.00	4344.00	83270.00	32
33	9584.00	70560.00	-10060.00	82720.00	3464.00	80630.00	33
34	10030.00	74650.00	-10950.00	86310.00	2584.00	86790.00	34
35	10040.00	72840.00	-11410.00	83170.00	3024.00	84590.00	35
36	8675.00	73290.00	-11410.00	84060.00	1704.00	85910.00	36
37	9129.00	71930.00	-12300.00	82270.00	2144.00	83710.00	37
38	7307.00	71930.00	-12760.00	81820.00	-936.00	85030.00	38
39	10040.00	65550.00	-7360.00	78220.00	3472.00	77100.00	39
40	9125.00	67370.00	-6912.00	78670.00	4792.00	76660.00	40
41	9127.00	69190.00	-7816.00	81370.00	4792.00	78420.00	41
42	9582.00	68740.00	-6456.00	80920.00	3912.00	78420.00	42
43	10040.00	65550.00	-9160.00	79130.00	824.00	77990.00	43
44	5939.00	70560.00	1624.00	81820.00	3464.00	81510.00	44
45	7760.00	69650.00	3432.00	80920.00	5232.00	80620.00	45
46	2296.00	76020.00	2976.00	84960.00	-1376.00	86350.00	46
47	5945.00	68740.00	1624.00	80920.00	1704.00	79750.00	47
48	1840.00	78300.00	-1968.00	87220.00	-64.00	89440.00	48

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CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
49	3200.00	72380.00	2976.00	83170.00	384.00	83710.00	49
50	-888.00	81940.00	4776.00	89460.00	-5344.00	93840.00	50

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133

TSGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	244900.00	16740.00	291400.00	248900.00	-2395.00	26510.00	2
3	249500.00	9008.00	283600.00	254000.00	-4373.00	21370.00	3
4	249500.00	11580.00	281100.00	252800.00	-1208.00	18200.00	4
5	272100.00	10300.00	288800.00	251500.00	-1603.00	24930.00	5
6	233400.00	11580.00	248900.00	212800.00	-8334.00	68850.00	6
7	228900.00	8368.00	277300.00	215400.00	-5165.00	57770.00	7
8	241800.00	7088.00	250200.00	227000.00	-3977.00	52620.00	8
9	242500.00	6440.00	248900.00	227000.00	375.00	42730.00	9
10	231500.00	12230.00	246300.00	212800.00	-4776.00	76360.00	10
11	238600.00	10300.00	252800.00	227000.00	-2791.00	66470.00	11
12	231500.00	9656.00	242400.00	220600.00	-20.50	56580.00	12
13	248200.00	9656.00	241800.00	237300.00	3145.00	51830.00	13
14	313900.00	18670.00	345400.00	288800.00	5912.00	75180.00	14
15	344200.00	24460.00	348600.00	275900.00	7880.00	101700.00	15
16	319100.00	21250.00	341600.00	295200.00	7099.00	70820.00	16
17	330600.00	25100.00	347300.00	273300.00	8280.00	108400.00	17
18	330000.00	19310.00	351900.00	303000.00	9078.00	61720.00	18
19	289400.00	23820.00	350600.00	263100.00	14220.00	90620.00	19
20	352500.00	25100.00	380200.00	321000.00	5904.00	82300.00	20
21	350600.00	29610.00	390500.00	304300.00	16190.00	112400.00	21
22	357700.00	28970.00	394400.00	314500.00	3536.00	86260.00	22
23	357000.00	25750.00	387900.00	326100.00	5112.00	79930.00	23
24	340200.00	28970.00	403400.00	312000.00	14220.00	107200.00	24
25	371800.00	27680.00	399500.00	337700.00	7095.00	71610.00	25
26	385400.00	36050.00	425600.00	322300.00	4328.00	102900.00	26
27	357000.00	27030.00	384100.00	327400.00	5512.00	81110.00	27
28	342200.00	28970.00	373800.00	312000.00	3928.00	93770.00	28
29	235400.00	18660.00	254000.00	215400.00	770.50	58950.00	29
30	227600.00	12230.00	279900.00	212800.00	-416.00	60930.00	30
31	224400.00	10940.00	278600.00	214100.00	2749.00	54600.00	31
32	230200.00	12230.00	243700.00	215400.00	2749.00	48270.00	32
33	234700.00	13520.00	255300.00	220600.00	3541.00	40360.00	33
34	220600.00	6440.00	232200.00	214100.00	1958.00	44320.00	34
35	222500.00	7088.00	230900.00	212800.00	1958.00	48270.00	35
36	218600.00	8368.00	227000.00	206400.00	-812.00	61330.00	36
37	209600.00	9656.00	224400.00	200000.00	-3592.00	69640.00	37
38	203800.00	11580.00	216700.00	189700.00	-5568.00	77950.00	38
39	217300.00	18670.00	276000.00	196100.00	-3992.00	72410.00	39
40	218600.00	9656.00	229600.00	207700.00	-416.00	60930.00	40
41	240500.00	18660.00	259200.00	219300.00	2353.00	55000.00	41
42	241800.00	8368.00	250200.00	230900.00	2749.00	45900.00	42
43	218000.00	11590.00	230900.00	203800.00	-3984.00	73200.00	43
44	279800.00	19310.00	303000.00	257900.00	9072.00	78340.00	44
45	283000.00	18670.00	303000.00	260500.00	6704.00	75970.00	45
46	306800.00	23130.00	330000.00	255300.00	10260.00	111200.00	46
47	288800.00	16740.00	310700.00	270800.00	7492.00	65680.00	47
48	301000.00	22540.00	335200.00	263100.00	5904.00	103700.00	48



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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
49	291400.00	18020.00	315800.00	272100.00	6303.00	62110.00	49
50	305500.00	21890.00	327400.00	264300.00	6304.00	92980.00	50

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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/25/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-3263.00	26950.00	-4764.00	28290.00	-8107.00	27140.00	2
3	-5677.00	22120.00	1320.00	25600.00	-6750.00	23970.00	3
4	-3263.00	18100.00	-4069.00	22900.00	-6298.00	19000.00	4
5	-447.50	23330.00	-4967.00	22900.00	-4036.00	21260.00	5
6	2760.00	74010.00	-11260.00	64230.00	3653.00	66940.00	6
7	2368.00	60740.00	-7662.00	54340.00	5010.00	53820.00	7
8	3575.00	51490.00	-7213.00	51200.00	5462.00	48850.00	8
9	1564.00	43840.00	-4967.00	42660.00	4558.00	39800.00	9
10	2760.00	82060.00	-9915.00	71860.00	7712.00	75540.00	10
11	3976.00	70390.00	-9012.00	63770.00	7719.00	65580.00	11
12	3173.00	59930.00	-5866.00	55240.00	8629.00	56540.00	12
13	1966.00	54700.00	-1375.00	49850.00	7272.00	52470.00	13
14	-56.00	76020.00	864.00	66460.00	2288.00	70110.00	14
15	-12520.00	102200.00	3560.00	90710.00	-7208.00	96790.00	15
16	-56.00	73610.00	2665.00	63770.00	1844.00	66940.00	16
17	-9704.00	107400.00	7152.00	106000.00	-7216.00	99500.00	17
18	-2060.00	63560.00	4913.00	55240.00	1844.00	58800.00	18
19	-9304.00	93320.00	15230.00	87120.00	-4496.00	91360.00	19
20	-1664.00	82460.00	-1832.00	73660.00	-1784.00	75080.00	20
21	-10910.00	115000.00	12100.00	99250.00	-9928.00	106700.00	21
22	-2864.00	86080.00	-2280.00	77690.00	-3144.00	78250.00	22
23	-2464.00	78430.00	-32.00	71860.00	-2232.00	71910.00	23
24	-12520.00	111000.00	14780.00	96560.00	-9016.00	104000.00	24
25	-2464.00	69580.00	-1377.00	65120.00	-417.50	62870.00	25
26	-12920.00	101800.00	2216.00	96550.00	-8568.00	99050.00	26
27	-1264.00	78030.00	-928.00	73650.00	-1328.00	71920.00	27
28	-2864.00	91710.00	-3176.00	83080.00	-3136.00	83680.00	28
29	-849.50	61540.00	-4764.00	54340.00	5010.00	55630.00	29
30	-447.50	62750.00	-6315.00	55690.00	6819.00	55630.00	30
31	-850.00	55910.00	-4518.00	51200.00	5915.00	51110.00	31
32	-3263.00	48670.00	-2273.00	44460.00	5462.00	44330.00	32
33	-4883.00	40220.00	-925.00	37720.00	-870.00	37090.00	33
34	-2861.00	45050.00	-3171.00	39970.00	4558.00	40710.00	34
35	-45.00	50280.00	-6315.00	44910.00	7724.00	45680.00	35
36	1162.00	64360.00	-9460.00	57040.00	8625.00	57440.00	36
37	1152.00	71600.00	-10810.00	62870.00	7271.00	63320.00	37
38	-56.00	81660.00	-15300.00	70060.00	6816.00	71010.00	38
39	1160.00	76420.00	-11710.00	65570.00	8174.00	67840.00	39
40	759.00	63960.00	-9460.00	57040.00	8176.00	56990.00	40
41	759.00	57520.00	-6314.00	52090.00	6819.00	52010.00	41
42	-2459.00	45450.00	-2273.00	41760.00	5010.00	42060.00	42
43	-456.00	77220.00	-11710.00	66470.00	6361.00	68740.00	43
44	-2472.00	79240.00	864.00	67360.00	480.00	71010.00	44
45	-2464.00	76830.00	-32.00	65570.00	-424.00	68300.00	45
46	-10500.00	105000.00	6704.00	104600.00	-7216.00	95890.00	46
47	-2461.00	66370.00	422.00	57030.00	34.50	59700.00	47
48	-12920.00	99350.00	1312.00	101000.00	-6304.00	94080.00	48

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TBGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
49	-3264.00	61540.00	1321.00	55240.00	34.50	55180.00	49
50	-9304.00	90900.00	2208.00	86670.00	-9472.00	82770.00	50



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133

TSGW 2,800 TSCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	263.90	264.60	263.50	1.00	1.02	.97	2
3	264.30	264.40	263.70	.99	1.01	.97	3
4	264.30	264.40	263.90	1.01	1.02	.98	4
5	263.90	264.40	263.70	.99	1.02	.96	5
6	263.70	264.30	263.30	1.02	1.05	.95	6
7	264.20	264.40	263.90	.99	1.01	.98	7
8	264.10	264.90	263.90	.98	1.02	.96	8
9	264.30	264.40	263.90	.99	1.02	.97	9
10	264.30	264.60	263.70	.99	1.06	.96	10
11	264.10	264.40	263.90	1.02	1.03	.98	11
12	264.00	264.40	263.90	.99	1.02	.97	12
13	264.10	264.40	263.90	.98	1.02	.97	13
14	263.80	264.60	263.70	.93	1.02	.89	14
15	264.70	265.40	262.90	1.07	1.24	.90	15
16	264.20	264.40	263.90	.99	1.03	.98	16
17	264.30	265.60	263.10	1.01	1.27	.77	17
18	264.30	264.40	263.70	.97	1.02	.95	18
19	264.70	265.60	262.90	1.03	1.25	.87	19
20	264.20	264.40	263.90	.96	1.00	.92	20
21	264.20	264.90	263.50	1.11	1.17	.98	21
22	264.10	264.40	263.70	1.03	1.06	.92	22
23	264.10	264.30	263.90	.99	1.02	.94	23
24	264.30	264.90	263.30	1.07	1.16	.92	24
25	263.90	264.40	263.70	.99	1.03	.92	25
26	264.30	265.10	263.30	.99	1.21	.84	26
27	264.00	264.10	263.90	.98	1.05	.95	27
28	264.30	264.40	263.90	.98	1.03	.96	28
29	264.00	264.10	263.70	.99	1.01	.98	29
30	264.20	264.30	263.90	.99	1.01	.98	30
31	264.00	264.30	263.90	1.00	1.01	.99	31
32	264.20	264.40	263.90	1.01	1.02	.99	32
33	263.90	264.30	263.70	.98	1.00	.96	33
34	264.10	264.30	263.50	1.01	1.03	.99	34
35	264.30	264.40	263.90	.99	1.02	.97	35
36	264.20	264.40	263.90	1.01	1.02	.97	36
37	263.80	264.10	263.50	1.00	1.02	.97	37
38	264.20	264.40	263.90	1.01	1.02	.99	38
39	263.80	264.30	263.70	1.01	1.02	.99	39
40	263.60	264.30	263.50	.99	1.01	.98	40
41	263.90	264.30	263.70	1.01	1.02	.98	41
42	264.20	264.30	263.70	.99	1.02	.98	42
43	264.10	264.30	263.70	1.00	1.02	.98	43
44	263.90	264.60	263.70	1.03	1.05	.96	44
45	263.90	264.10	263.70	.99	1.02	.95	45
46	263.70	265.30	262.80	.99	1.21	.79	46
47	264.00	264.30	263.70	1.00	1.02	.99	47
48	263.80	265.30	262.90	1.03	1.22	.83	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TOW 25800 TCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
49	264.10	264.40	263.70	.99	1.03	.97	49
50	264.90	265.30	262.80	1.03	1.20	.80	50

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	.81	1.87	-.25	5.22	6.08	4.28	2
3	1.79	2.52	-.25	5.22	6.43	4.62	3
4	.81	2.52	.08	6.77	7.46	5.74	4
5	1.54	2.68	-.09	5.82	7.46	5.22	5
6	-1.13	.08	-1.72	-1.44	-.10	-2.08	6
7	-.09	.24	-1.23	-.06	.93	-.36	7
8	-.33	.57	-1.23	.76	2.22	-.62	8
9	-.09	.08	-.90	1.87	2.90	1.10	9
10	.08	.24	-2.04	-2.25	-1.31	-2.60	10
11	.24	.40	-1.06	-2.98	-1.39	-3.37	11
12	-.17	.40	-1.23	-2.21	-1.48	-2.85	12
13	-.17	.57	-.57	-2.21	-1.65	-2.68	13
14	-.17	1.05	-1.06	-7.58	-4.83	-8.09	14
15	-.17	.57	-.90	-2.60	1.10	-5.95	15
16	-.00	.73	-.41	-5.13	-4.14	-5.52	16
17	-.25	1.22	-3.18	-8.82	.67	-11.79	17
18	.73	1.38	.08	-3.88	-3.02	-5.43	18
19	.97	1.38	-.74	-2.42	.15	-7.23	19
20	-.25	.57	-1.72	-7.71	-6.81	-7.84	20
21	-.09	.08	-1.39	-4.96	-4.06	-8.09	21
22	.57	3.50	-2.69	-6.25	-4.74	-7.92	22
23	-.09	.57	-.57	-6.55	-5.95	-7.15	23
24	-.17	.89	-1.55	-4.83	-3.80	-7.41	24
25	-.17	.57	-.90	-5.56	-5.26	-7.06	25
26	-.17	.40	-1.55	-6.55	-2.34	-8.09	26
27	-.09	.08	-1.06	-6.12	-5.35	-7.58	27
28	-.17	.08	-.57	-8.27	-7.23	-9.04	28
29	-.17	.08	-.41	-.96	.84	-1.39	29
30	-.09	.57	-.25	-.58	.33	-1.48	30
31	.24	.89	.08	.58	.84	-.02	31
32	-.09	.40	-.74	1.27	2.30	.76	32
33	.40	.73	-.09	1.66	2.13	-.71	33
34	-.09	.73	-1.39	.67	1.44	-1.31	34
35	-.09	.73	-.57	-.83	-.36	-1.65	35
36	-.41	.24	-1.06	-1.61	-1.22	-2.68	36
37	-.09	1.05	-.25	-2.47	-.88	-3.02	37
38	-.09	.57	-.41	-2.72	-1.91	-3.28	38
39	-.33	.89	-.90	-2.34	-1.82	-3.02	39
40	-.33	.08	-.90	-1.82	-1.39	-2.60	40
41	-.09	1.22	-.25	-.79	-.28	-1.82	41
42	-.09	.89	-.74	-1.39	-.28	-1.91	42
43	-.09	.24	-1.55	-3.15	-1.99	-4.49	43
44	.89	1.22	-.41	-4.91	-4.23	-6.03	44
45	-.09	.89	-1.72	-5.35	-4.57	-6.12	45
46	-1.63	.73	-2.85	-3.37	-.02	-8.44	46
47	.40	1.22	-.09	-4.66	-3.63	-5.09	47
48	-.17	1.05	-1.55	-6.51	-.02	-8.52	48



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 133  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
49	-1.49	1.38	-1.74	-4.31	-3.20	-4.74	49
50	-1.17	1.70	-1.90	-1.48	-1.88	-8.95	50

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 134  
TCGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	115300.00	9712.00	127600.00	101700.00	-2632.00	80060.00	2
3	122500.00	9072.00	134100.00	109500.00	-3080.00	78710.00	3
4	128900.00	9072.00	138000.00	114700.00	-4872.00	76920.00	4
5	100400.00	10360.00	114700.00	88780.00	-4424.00	81850.00	5
6	118600.00	10370.00	145400.00	108200.00	-6216.00	80950.00	6
7	114000.00	9072.00	131500.00	104300.00	-5320.00	78260.00	7
8	144500.00	9072.00	157500.00	134100.00	-7112.00	79160.00	8
9	133500.00	9720.00	148400.00	122500.00	-3528.00	78260.00	9
10	152300.00	9072.00	161300.00	139300.00	-4424.00	77370.00	10
11	149000.00	8424.00	160000.00	138000.00	-3976.00	74250.00	11
12	153600.00	7776.00	167800.00	144500.00	-5320.00	72900.00	12
13	202200.00	13610.00	220900.00	186000.00	504.00	64400.00	13
14	204700.00	12310.00	217100.00	183400.00	2292.00	66190.00	14
15	207300.00	12310.00	222200.00	182100.00	3628.00	68420.00	15
16	141300.00	12310.00	153600.00	116000.00	-3528.00	86310.00	16
17	110800.00	10360.00	127600.00	100400.00	-3976.00	82300.00	17
18	126400.00	10370.00	136700.00	113400.00	-5768.00	81400.00	18
19	112800.00	12300.00	127600.00	99150.00	-6664.00	86760.00	19
20	126400.00	10370.00	140600.00	113400.00	-6656.00	85870.00	20
21	128300.00	11020.00	139300.00	110800.00	-8448.00	85870.00	21
22	131500.00	10370.00	144500.00	114700.00	-7552.00	85870.00	22
23	137400.00	12310.00	157500.00	125100.00	-6208.00	84530.00	23
24	148400.00	10370.00	160000.00	128900.00	-4864.00	83180.00	24
25	227400.00	12960.00	250700.00	214500.00	3624.00	72010.00	25
26	215800.00	23330.00	276700.00	182100.00	2736.00	76480.00	26
27	230000.00	12960.00	249400.00	214500.00	4072.00	72460.00	27
28	213800.00	21380.00	280500.00	184700.00	1840.00	74690.00	28
29	224100.00	12960.00	243000.00	209300.00	6304.00	73790.00	29
30	213200.00	20740.00	252000.00	165200.00	5416.00	80060.00	30
31	243500.00	18140.00	312900.00	259800.00	1392.00	82290.00	31
32	285100.00	23980.00	327200.00	241700.00	2288.00	84980.00	32
33	290900.00	18140.00	312900.00	271500.00	3624.00	80950.00	33
34	263700.00	23320.00	315500.00	231300.00	1392.00	84980.00	34
35	280500.00	16850.00	298700.00	258500.00	4520.00	82740.00	35
36	278000.00	23330.00	309100.00	230000.00	2736.00	86320.00	36
37	230000.00	12960.00	244300.00	215800.00	-1736.00	80060.00	37
38	240400.00	14250.00	254600.00	222200.00	2288.00	73340.00	38

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 134  
TGGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	10890.00	76470.00	-9168.00	90850.00	3920.00	89870.00	2
3	10890.00	76470.00	-10060.00	89050.00	1720.00	89430.00	3
4	9072.00	75570.00	-12760.00	88150.00	840.00	89430.00	4
5	9520.00	80580.00	-11860.00	92650.00	1272.00	93400.00	5
6	9072.00	81020.00	-12310.00	92200.00	1272.00	94280.00	6
7	8608.00	78750.00	-13210.00	89500.00	392.00	91640.00	7
8	7704.00	80570.00	-15010.00	90400.00	-1808.00	93840.00	8
9	9986.00	74650.00	-10060.00	89050.00	3480.00	86790.00	9
10	10900.00	73740.00	-10960.00	88140.00	2160.00	88110.00	10
11	9528.00	72380.00	-11420.00	85000.00	-48.00	85020.00	11
12	9983.00	71010.00	-12760.00	83660.00	392.00	83700.00	12
13	5883.00	63270.00	-1968.00	74660.00	1272.00	71370.00	13
14	4063.00	65090.00	-1968.00	75550.00	-1368.00	74010.00	14
15	3610.00	68280.00	736.00	78260.00	-3136.00	75780.00	15
16	11340.00	81490.00	-10510.00	96690.00	3912.00	95160.00	16
17	10430.00	77840.00	-11420.00	93100.00	1712.00	92080.00	17
18	9064.00	80120.00	-12760.00	91750.00	832.00	92960.00	18
19	4792.00	86950.00	-15010.00	98500.00	-2256.00	101300.00	19
20	4792.00	86040.00	-16360.00	96250.00	-1368.00	99560.00	20
21	4792.00	86950.00	-17700.00	96700.00	-2256.00	101300.00	21
22	7696.00	86940.00	-16810.00	97590.00	-1816.00	101800.00	22
23	4336.00	82850.00	-15010.00	95790.00	-2688.00	93600.00	23
24	9064.00	80120.00	-14110.00	94000.00	-928.00	92960.00	24
25	4968.00	71460.00	1184.00	83200.00	1712.00	82380.00	25
26	3152.00	76930.00	-1072.00	86350.00	-928.00	87660.00	26
27	3600.00	72830.00	2984.00	84100.00	1272.00	84580.00	27
28	1336.00	74200.00	-1968.00	85460.00	-2248.00	84580.00	28
29	3144.00	74200.00	4776.00	85900.00	392.00	86340.00	29
30	-1856.00	80110.00	5224.00	89940.00	-7536.00	90750.00	30
31	3144.00	82390.00	1632.00	94450.00	832.00	93840.00	31
32	3608.00	85580.00	728.00	96250.00	4800.00	97810.00	32
33	1784.00	80120.00	3432.00	93540.00	-488.00	91640.00	33
34	2240.00	86030.00	-4216.00	96700.00	-488.00	96920.00	34
35	3608.00	81030.00	2528.00	94450.00	832.00	92960.00	35
36	4520.00	86490.00	728.00	98040.00	3040.00	98690.00	36
37	7696.00	77840.00	-1520.00	92190.00	5240.00	88550.00	37
38	4968.00	71460.00	-1064.00	84550.00	4792.00	82820.00	38



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 134  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	272800.00	9648.00	287600.00	263100.00	3967.00	51030.00	2
3	268900.00	8368.00	279800.00	258000.00	2780.00	57750.00	3
4	265000.00	9656.00	276000.00	251500.00	1192.00	68040.00	4
5	262500.00	7728.00	254100.00	233500.00	1198.00	52210.00	5
6	251500.00	9008.00	243100.00	241200.00	802.50	58940.00	6
7	235400.00	9656.00	247700.00	221900.00	-784.00	66850.00	7
8	249600.00	12220.00	241800.00	229600.00	-1584.00	81090.00	8
9	254700.00	9648.00	247000.00	245100.00	1594.00	57350.00	9
10	252800.00	11580.00	245700.00	237400.00	-792.00	67640.00	10
11	232200.00	12870.00	251500.00	219300.00	-1584.00	79500.00	11
12	232200.00	14150.00	246400.00	215500.00	792.00	90580.00	12
13	277300.00	14150.00	294000.00	256700.00	9496.00	88200.00	13
14	275300.00	13510.00	297800.00	260500.00	9504.00	86620.00	14
15	285600.00	14800.00	308100.00	270800.00	8704.00	83460.00	15
16	320400.00	9648.00	321300.00	300400.00	406.50	62500.00	16
17	290100.00	10300.00	305600.00	279800.00	-4347.00	64090.00	17
18	284300.00	11580.00	299100.00	272100.00	-2768.00	78320.00	18
19	276000.00	9008.00	285000.00	261800.00	11.00	62100.00	19
20	274700.00	11580.00	286300.00	260500.00	-784.00	72380.00	20
21	268900.00	14800.00	290100.00	252800.00	-3952.00	97700.00	21
22	270800.00	15450.00	287600.00	246400.00	-5136.00	109200.00	22
23	290800.00	14800.00	309400.00	265700.00	-6320.00	86620.00	23
24	284300.00	16730.00	305600.00	264400.00	-4352.00	102000.00	24
25	288800.00	19300.00	308100.00	261800.00	7128.00	80300.00	25
26	304300.00	27020.00	348000.00	256700.00	11480.00	111500.00	26
27	295900.00	18660.00	318400.00	274700.00	5152.00	71200.00	27
28	312600.00	22520.00	344200.00	254100.00	13450.00	100100.00	28
29	302100.00	18020.00	320000.00	282400.00	5545.00	62890.00	29
30	321000.00	21870.00	342900.00	267000.00	9896.00	90180.00	30
31	347400.00	27660.00	382800.00	318400.00	10680.00	108400.00	31
32	344700.00	34100.00	402100.00	310700.00	8704.00	119100.00	32
33	358300.00	27020.00	385400.00	324900.00	4752.00	83460.00	33
34	374400.00	34100.00	416200.00	312000.00	8312.00	113100.00	34
35	344800.00	25740.00	390500.00	335200.00	4052.00	72780.00	35
36	389200.00	29600.00	418800.00	323600.00	7120.00	100900.00	36
37	291400.00	19300.00	310700.00	268300.00	2768.00	82270.00	37
38	285600.00	18460.00	308100.00	261800.00	4752.00	79500.00	38

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 134  
TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-4107.00	50280.00	-1888.00	45850.00	1826.00	45240.00	2
3	-487.00	58730.00	-4585.00	53040.00	4088.00	53840.00	3
4	-2104.00	71610.00	-7287.00	63830.00	4539.00	63330.00	4
5	-4509.00	49080.00	-3686.00	47650.00	16.50	47050.00	5
6	-1694.00	60740.00	-3686.00	53040.00	4088.00	55640.00	6
7	-1296.00	71600.00	-9088.00	60240.00	5443.00	64240.00	7
8	-1704.00	87290.00	-9084.00	71920.00	3176.00	77350.00	8
9	-4509.00	55510.00	-4136.00	50790.00	1826.00	51570.00	9
10	-3712.00	71600.00	-5490.00	60240.00	2277.00	65600.00	10
11	-5720.00	84070.00	-5940.00	68780.00	464.00	75550.00	11
12	-6128.00	94930.00	-7288.00	80010.00	-440.00	84600.00	12
13	-14580.00	85680.00	6640.00	81360.00	-10390.00	81880.00	13
14	-14970.00	81260.00	6640.00	81360.00	-10400.00	79170.00	14
15	-14580.00	77240.00	4848.00	78660.00	-11750.00	75100.00	15
16	-3303.00	60740.00	-4136.00	54390.00	-3151.00	53830.00	16
17	-4914.00	64770.00	-6383.00	57540.00	-3603.00	57000.00	17
18	-6928.00	80450.00	-5940.00	68780.00	-3608.00	70570.00	18
19	-8534.00	41150.00	-6383.00	55740.00	-5412.00	55190.00	19
20	-10150.00	72410.00	-3687.00	64730.00	-3610.00	64250.00	20
21	-15780.00	96540.00	-8640.00	84960.00	-13110.00	85500.00	21
22	-16180.00	106600.00	-9088.00	96190.00	-14920.00	93640.00	22
23	-13770.00	84870.00	-9536.00	80460.00	-12650.00	76910.00	23
24	-19400.00	100200.00	-8184.00	92600.00	-18080.00	92290.00	24
25	-4112.00	81660.00	1704.00	69220.00	-2712.00	73290.00	25
26	-16980.00	106600.00	11580.00	105200.00	-15380.00	98620.00	26
27	-4112.00	72000.00	809.00	62030.00	-2253.00	65600.00	27
28	-14980.00	97340.00	14290.00	95300.00	-14470.00	89580.00	28
29	-4511.00	62750.00	3057.00	56190.00	-2246.00	56550.00	29
30	-15380.00	87300.00	9792.00	88100.00	-13560.00	83240.00	30
31	-14170.00	106200.00	11580.00	100700.00	-13100.00	97260.00	31
32	-9344.00	119900.00	10690.00	110600.00	-13110.00	109000.00	32
33	-8944.00	82460.00	1248.00	72370.00	-9485.00	72840.00	33
34	-11350.00	114600.00	6648.00	106500.00	-14470.00	103100.00	34
35	-4930.00	72410.00	1706.00	64730.00	-9488.00	65600.00	35
36	-9744.00	105800.00	7992.00	97100.00	-10850.00	97710.00	36
37	-4512.00	82360.00	1248.00	70580.00	-4968.00	72840.00	37
38	-4920.00	80060.00	2600.00	68330.00	-4968.00	71030.00	38

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 134

TGGW 20800 TACG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.20	264.40	264.10	1.01	1.02	1.00	2
3	264.00	264.30	263.90	.99	1.01	.99	3
4	264.00	264.30	263.90	1.01	1.02	.99	4
5	264.30	264.40	263.90	.99	1.01	.98	5
6	264.30	264.40	264.10	1.01	1.02	.99	6
7	264.20	264.30	264.10	.99	1.01	.99	7
8	264.20	264.30	263.90	.99	1.01	.99	8
9	264.30	264.40	263.90	1.00	1.02	.98	9
10	264.30	264.40	263.90	1.00	1.01	.99	10
11	264.40	264.60	263.90	1.00	1.02	.98	11
12	264.00	264.30	263.50	1.00	1.02	.98	12
13	264.00	264.30	263.90	.99	1.02	.98	13
14	264.00	264.30	263.90	1.01	1.02	.98	14
15	263.80	264.40	263.50	.99	1.02	.95	15
16	263.90	264.90	262.80	1.02	1.03	1.00	16
17	263.80	263.90	263.70	1.00	1.01	.99	17
18	264.00	264.30	263.90	1.01	1.01	1.00	18
19	264.30	264.40	264.10	.99	1.01	.98	19
20	264.20	264.30	263.90	.99	1.01	.98	20
21	264.20	264.40	263.90	1.01	1.01	1.00	21
22	264.20	264.30	263.90	1.00	1.01	.98	22
23	264.00	264.10	263.90	1.01	1.01	.99	23
24	263.90	264.10	263.70	.99	1.01	.99	24
25	263.90	264.30	263.50	.99	1.05	.97	25
26	264.00	265.10	262.90	.98	1.15	.87	26
27	264.10	264.30	263.70	1.01	1.04	.95	27
28	264.20	265.10	262.80	.88	1.16	.82	28
29	263.60	264.30	263.30	.94	1.02	.93	29
30	263.60	264.60	262.80	.97	1.16	.81	30
31	263.90	264.40	263.50	1.07	1.09	.96	31
32	263.50	264.40	263.30	.92	1.13	.86	32
33	263.90	264.10	263.70	.97	1.01	.94	33
34	264.00	264.40	263.30	.99	1.13	.88	34
35	263.80	264.10	263.50	.98	1.01	.96	35
36	264.10	264.40	262.90	.99	1.14	.89	36
37	263.80	264.10	263.70	.99	1.01	.97	37
38	263.80	264.10	263.70	1.01	1.02	.97	38



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 134

TOWW 20800 TACG 9.7 AFT FLIGHT DATE 08/25/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.09	.24	-.25	.84	2.22	.41	2
3	.73	.89	.08	.20	.76	-.88	3
4	-.74	-.25	-.90	-.92	.58	-1.39	4
5	.73	1.38	.40	-.40	.24	-.53	5
6	.73	1.05	-1.06	-.96	-.28	-1.56	6
7	.73	.89	-.09	-1.65	-1.05	-2.25	7
8	-.09	.56	-.25	-2.12	-1.48	-3.02	8
9	.89	1.70	-.58	-1.01	-.45	-1.65	9
10	-1.06	-.74	-1.88	-2.42	-1.74	-2.77	10
11	-1.55	-1.06	-2.04	-2.42	-1.48	-3.02	11
12	-.09	.40	-.58	-3.02	-2.17	-4.23	12
13	.89	1.05	-.09	-3.33	-2.60	-3.88	13
14	.08	.56	-.58	-2.90	-2.42	-4.06	14
15	.73	.89	-.09	-2.64	-1.82	-4.14	15
16	-.09	.56	-.58	-.28	.76	-.79	16
17	.24	.40	-.58	-.45	.50	-.79	17
18	-.74	.08	-.90	.67	.93	-.36	18
19	-.58	.08	-1.06	-.06	.33	-.28	19
20	-.58	-.09	-1.23	-1.09	-.96	-1.74	20
21	.08	.56	-.09	-1.91	-.96	-2.25	21
22	.73	1.05	-.58	-1.95	-1.56	-3.02	22
23	.89	1.38	.73	-1.31	-.79	-1.74	23
24	.81	1.05	.08	-1.86	-1.39	-2.17	24
25	.81	1.38	-.41	-4.31	-4.14	-5.35	25
26	.81	1.54	-.58	-5.73	-2.25	-7.15	26
27	-.58	-.25	-1.06	-3.97	-3.45	-5.26	27
28	.73	.89	-.90	-3.58	-1.48	-6.81	28
29	.65	3.17	-.09	-3.50	-3.37	-4.66	29
30	.73	1.87	-.09	-4.57	-.10	-6.89	30
31	.89	1.54	.40	-6.55	-5.43	-8.18	31
32	-.66	1.54	-.90	-7.02	-4.91	-9.21	32
33	.73	1.05	-.25	-6.89	-6.55	-7.92	33
34	.89	1.38	-.25	-5.30	-4.14	-8.35	34
35	.73	1.22	.24	-6.33	-6.12	-6.72	35
36	.97	1.54	-1.39	-6.25	-3.20	-7.66	36
37	-.74	-.58	-1.55	-5.47	-4.91	-5.86	37
38	.24	.73	-.25	-5.52	-5.09	-6.03	38

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 135  
TGGW 20800 TBCR 9.7 AFT FLIGHT DATE 08/26/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	125700.00	7736.00	137300.00	115400.00	8257.00	68690.00	2
3	150200.00	7744.00	143100.00	134700.00	7344.00	73250.00	3
4	143100.00	10320.00	123800.00	148900.00	10540.00	70060.00	4
5	242900.00	13550.00	271500.00	232800.00	1888.00	74160.00	5
6	241800.00	16130.00	288300.00	245700.00	5984.00	74610.00	6
7	242600.00	19360.00	321800.00	272800.00	1888.00	81440.00	7
8	279900.00	18710.00	305100.00	259900.00	2336.00	82800.00	8
9	259300.00	17420.00	284400.00	239200.00	6888.00	78250.00	9
10	213400.00	12900.00	231500.00	195400.00	5984.00	74610.00	10
12	156700.00	9032.00	148300.00	145100.00	8714.00	70050.00	12
13	136700.00	9680.00	146400.00	119200.00	10540.00	70060.00	13
14	119200.00	7744.00	127000.00	96030.00	10080.00	70510.00	14
15	128900.00	7096.00	142500.00	121800.00	7804.00	70960.00	15
16	153400.00	8392.00	141800.00	142500.00	7344.00	76880.00	16
17	172800.00	9680.00	186400.00	163100.00	8712.00	75510.00	17
18	240500.00	15490.00	259900.00	221200.00	3256.00	78250.00	18
19	284400.00	18060.00	303800.00	262500.00	3712.00	77790.00	19
20	273400.00	17420.00	293500.00	252200.00	4624.00	78700.00	20
21	230200.00	14190.00	245700.00	214700.00	5984.00	76430.00	21
22	141200.00	8384.00	172200.00	152800.00	11900.00	74150.00	22
23	126400.00	8384.00	138600.00	116700.00	10530.00	74600.00	23
25	105700.00	7096.00	114100.00	97310.00	9168.00	68690.00	25
26	199900.00	16130.00	230200.00	125700.00	10530.00	87340.00	26
27	225100.00	25810.00	284400.00	173400.00	6896.00	83710.00	27
28	300600.00	25160.00	320900.00	222500.00	5072.00	83710.00	28

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AIRCRAFT SLP1 FLIGHT 135  
TCGW 20800 TCCG 9.7 AFT FLIGHT DATE 08/26/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	-5930.00	67940.00	-11430.00	78570.00	2672.00	80510.00	2
3	-6376.00	73750.00	-12330.00	84860.00	2672.00	85790.00	3
4	-1456.00	74190.00	-6040.00	86650.00	7952.00	81390.00	4
5	5696.00	75090.00	2936.00	87540.00	2672.00	86670.00	5
6	7485.00	72400.00	6536.00	86650.00	4872.00	88870.00	6
7	2456.00	80900.00	1144.00	96520.00	40.00	95460.00	7
8	9712.00	80000.00	6528.00	95630.00	3120.00	97660.00	8
9	9264.00	75090.00	248.00	92040.00	3552.00	92830.00	9
10	5696.00	73300.00	2488.00	87100.00	2672.00	87550.00	10
12	-120.00	71960.00	-6040.00	83960.00	3112.00	80070.00	12
13	-2352.00	73300.00	-10530.00	83950.00	-408.00	83590.00	13
14	-3688.00	71060.00	-11420.00	81260.00	1352.00	84470.00	14
15	-5480.00	71060.00	-14570.00	80810.00	-848.00	83150.00	15
16	-4584.00	78220.00	-13220.00	89340.00	-2600.00	90180.00	16
17	-568.00	79560.00	-9184.00	90690.00	912.00	88430.00	17
18	3904.00	79550.00	-1104.00	91580.00	-848.00	89310.00	18
19	5240.00	79110.00	688.00	90690.00	-848.00	89310.00	19
20	6584.00	79560.00	2488.00	91590.00	912.00	90190.00	20
21	2456.00	77330.00	-1104.00	88900.00	3112.00	87110.00	21
22	-2360.00	77770.00	-8736.00	89340.00	912.00	88430.00	22
23	-4136.00	76870.00	-11430.00	87540.00	-848.00	87550.00	23
25	-4140.00	67940.00	-14120.00	78570.00	-408.00	81830.00	25
26	776.00	89830.00	-7840.00	104600.00	8400.00	102900.00	26
27	3896.00	84020.00	-2448.00	99220.00	4440.00	99860.00	27
28	11060.00	82240.00	8320.00	98320.00	7520.00	99420.00	28



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 135  
TBGW 20800 TBGG 9.7 AFT FLIGHT DATE 08/26/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	222300.00	10310.00	235200.00	212000.00	-3904.00	72190.00	2
3	224800.00	10320.00	236400.00	209400.00	-2128.00	78430.00	3
4	219000.00	12250.00	246800.00	206800.00	-3904.00	83780.00	4
5	306700.00	18690.00	325400.00	284200.00	7680.00	77540.00	5
6	324800.00	21270.00	352500.00	303500.00	10800.00	75310.00	6
7	356400.00	27080.00	387300.00	329300.00	7232.00	86900.00	7
8	363500.00	26430.00	389900.00	334400.00	9016.00	77100.00	8
9	339000.00	23850.00	368000.00	309900.00	8125.00	69960.00	9
10	289300.00	18050.00	312500.00	270000.00	10800.00	65500.00	10
12	246800.00	10320.00	263500.00	236400.00	5011.00	56150.00	12
13	232600.00	10310.00	246800.00	218400.00	-1673.00	59270.00	13
14	219700.00	9024.00	232600.00	206800.00	-2564.00	61050.00	14
15	224200.00	10960.00	237700.00	213200.00	-2568.00	72630.00	15
16	224800.00	11600.00	236400.00	209400.00	-2568.00	85110.00	16
17	237100.00	13540.00	250600.00	218400.00	992.00	86000.00	17
18	294500.00	20630.00	320300.00	271300.00	11690.00	96700.00	18
19	342800.00	25140.00	373100.00	315100.00	12580.00	100300.00	19
20	351800.00	26430.00	380900.00	322800.00	12140.00	85560.00	20
21	317000.00	19980.00	337000.00	291900.00	6348.00	70850.00	21
22	256400.00	12250.00	268700.00	241600.00	2338.00	62390.00	22
23	226100.00	10310.00	239000.00	213200.00	-1673.00	63720.00	23
25	232600.00	25780.00	258400.00	205500.00	-6135.00	61950.00	25
26	320900.00	25140.00	349900.00	219700.00	-792.00	103800.00	26
27	337700.00	31580.00	387300.00	255800.00	-5696.00	110500.00	27
28	363400.00	31590.00	405400.00	288000.00	15250.00	95810.00	28

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 135  
TGW 20800 TCR 9.7 AFT FLIGHT DATE 08/26/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	1952.00	75330.00	-10960.00	66030.00	5966.00	66930.00	2
3	1048.00	81640.00	-9612.00	71880.00	5968.00	73260.00	3
4	1952.00	87060.00	-11410.00	77260.00	7776.00	79600.00	4
5	152.00	80740.00	-4225.00	69180.00	1888.00	72820.00	5
6	-133600.00	95410.00	4318.00	66930.00	2800.00	69200.00	6
7	-136800.00	92250.00	264.00	79060.00	-4440.00	80060.00	7
8	-130900.00	98120.00	2064.00	70080.00	-3080.00	68740.00	8
9	-128200.00	100800.00	1172.00	64680.00	5063.00	64220.00	9
10	-134500.00	94510.00	-3319.00	61990.00	6876.00	63320.00	10
12	-229000.00		-6464.00	54350.00	9138.00	57440.00	12
13	-229000.00		-10510.00	58400.00	7325.00	58340.00	13
14	-229000.00		-11860.00	57050.00	8686.00	57890.00	14
15	-229000.00		-9163.00	66040.00	6870.00	67830.00	15
16	-229000.00		-10960.00	75020.00	5056.00	79600.00	16
17	-229000.00		-7368.00	75910.00	2344.00	80500.00	17
18	-229000.00		4760.00	84460.00	-5792.00	87740.00	18
19	-159300.00	69700.00	10600.00	92090.00	-13030.00	86840.00	19
20	-149400.00	79620.00	6552.00	74570.00	-10320.00	75980.00	20
21	-229000.00		1623.00	61540.00	-4886.00	63320.00	21
22	-229000.00		-624.00	55700.00	1450.00	58800.00	22
23	-229000.00		-7369.00	59750.00	3712.00	60150.00	23
25	-217000.00	11960.00	-10960.00	57050.00	2355.00	58800.00	25
26	-229000.00		-7368.00	100200.00	-14390.00	109000.00	26
27	-140800.00	88190.00	-12760.00	103800.00	-23430.00	104500.00	27
28	-123700.00	105300.00	10600.00	88490.00	-12130.00	93170.00	28

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 135  
TCGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/26/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.00	264.40	263.90	1.02	1.02	.95	2
3	264.40	264.90	263.70	1.05	1.06	.96	3
4	264.20	265.40	263.50	1.06	1.12	.93	4
5	264.10	264.30	263.50	1.01	1.05	.88	5
6	263.90	264.30	263.70	1.03	1.04	.95	6
7	264.30	264.40	263.70	.99	1.04	.95	7
8	263.90	264.40	263.70	1.02	1.04	.95	8
9	264.10	264.40	263.70	1.02	1.09	.90	9
10	264.40	264.60	263.90	.94	1.07	.92	10
12	264.00	264.40	263.90	.99	1.02	.97	12
13	263.70	264.30	263.50	.98	1.02	.96	13
14	263.90	264.60	263.50	.99	1.04	.96	14
15	264.00	264.10	263.90	.99	1.01	.98	15
16	264.00	264.40	263.90	.99	1.01	.99	16
17	264.30	264.40	263.70	.99	1.02	.97	17
18	264.10	264.40	263.70	.98	1.03	.95	18
19	263.90	264.10	263.50	.99	1.03	.96	19
20	263.90	264.10	263.50	.98	1.01	.96	20
21	263.90	264.10	263.70	.99	1.02	.97	21
22	263.80	264.10	263.70	.99	1.01	.98	22
23	264.00	264.30	263.90	1.03	1.04	.98	23
25	263.30	263.90	263.50	.99	1.00	.98	25
26	264.70	265.60	262.00	1.27	1.54	1.00	26
27	264.70	265.60	262.40	1.10	1.45	.91	27
28	263.50	264.90	262.90	1.00	1.27	.86	28



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# FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 135

TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/26/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.69	-.36	-1.18	-1.10	.61	-1.88	2
3	-.69	-.36	-1.51	-.55	.78	-.93	3
4	-.03	.95	-.53	-1.62	-.42	-2.13	4
5	1.36	1.93	-.69	-3.12	-2.22	-4.79	5
6	1.44	2.42	1.11	-3.25	-2.56	-3.76	6
7	1.52	2.10	.62	-4.79	-4.28	-5.22	7
8	.95	1.77	.13	-4.92	-3.16	-5.22	8
9	-1.18	.13	-1.84	-4.49	-2.65	-4.88	9
10	.38	1.11	-1.02	-3.94	-2.13	-4.62	10
12	-.03	.78	-.85	-1.49	-1.02	-1.79	12
13	-1.59	-.53	-2.65	-.38	.44	-1.02	13
14	-.77	-.20	-1.84	.18	1.90	-.42	14
15	-.03	.29	-.36	-.16	.35	-1.02	15
16	-.03	.46	-.53	-1.23	-.85	-1.45	16
17	-.28	1.28	-.53	-2.48	-1.88	-4.02	17
18	1.03	2.42	-.20	-5.09	-3.85	-5.82	18
19	-.03	.46	-.53	-5.39	-4.62	-5.99	19
20	-.03	.62	-.20	-5.86	-4.62	-6.25	20
21	-.69	-.20	-1.34	-4.19	-3.08	-4.62	21
22	-1.75	-.85	-2.16	-1.92	-1.45	-2.48	22
23	-.12	.13	-.85	-.98	.61	-1.28	23
25	-.03	.13	-.69	1.21	1.98	.52	25
26	-40.23	-6.75	-45.06	7.21	9.79	-1.45	26
27	-35.73	-.53	-40.64	2.37	7.73	-3.51	27
28	-.4.29	-3.80	-31.31	-4.02	5.84	-5.31	28

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 136  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/29/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
1	137400.00	6448.00	143800.00	128400.00	8447.00	70580.00	1
2	179900.00	7744.00	187700.00	168300.00	7539.00	63290.00	2
3	199900.00	8384.00	208300.00	185100.00	5717.00	65120.00	3
4	238600.00	13540.00	253400.00	222500.00	7080.00	71030.00	4
5	279200.00	18060.00	303700.00	259900.00	4800.00	72400.00	5
6	283100.00	42550.00	336000.00	187700.00	7072.00	81060.00	6
7	299200.00	21280.00	329500.00	270200.00	5256.00	78330.00	7
8	283700.00	45780.00	345000.00	208300.00	8904.00	84700.00	8
9	285700.00	18060.00	303700.00	263800.00	9816.00	72860.00	9
10	242500.00	18050.00	301200.00	236700.00	1160.00	77860.00	10
11	138700.00	7744.00	146400.00	118000.00	11180.00	65110.00	11
12	116100.00	7096.00	136100.00	105100.00	10270.00	63300.00	12
13	120600.00	9032.00	143800.00	110300.00	10270.00	63300.00	13
14	132900.00	7096.00	140000.00	121900.00	10730.00	60110.00	14
15	148300.00	8376.00	145700.00	140000.00	7538.00	61470.00	15
16	179900.00	7744.00	190300.00	161900.00	10720.00	66480.00	16
17	163800.00	8376.00	173500.00	151600.00	9818.00	64660.00	17
18	169600.00	7736.00	181200.00	161900.00	11180.00	65110.00	18
19	239200.00	12900.00	256000.00	221200.00	9814.00	70120.00	19
20	241800.00	15480.00	245000.00	223800.00	6175.00	68310.00	20
21	239200.00	34820.00	281800.00	181200.00	4800.00	76050.00	21
22	239900.00	12250.00	252100.00	225100.00	8447.00	70580.00	22
23	240500.00	33530.00	287000.00	173500.00	2984.00	78780.00	23
24	281200.00	19990.00	303700.00	261200.00	7080.00	79240.00	24
25	248900.00	32240.00	326900.00	218600.00	6624.00	83330.00	25
26	298600.00	18060.00	319200.00	267600.00	6624.00	75140.00	26
27	270200.00	30950.00	329500.00	223800.00	2520.00	88340.00	27
28	302400.00	23210.00	325600.00	266300.00	6168.00	78330.00	28
29	225700.00	12260.00	239200.00	205700.00	6624.00	69660.00	29

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 136  
TGW 20800 TSCR 9.7 AFT FLIGHT DATE 08/29/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	-5416.00	71880.00	-10870.00	81880.00	4960.00	82350.00	1
2	-2285.00	66080.00	-4576.00	75580.00	6280.00	72230.00	2
3	2179.00	66080.00	-1424.00	76030.00	3640.00	73990.00	3
4	5754.00	68760.00	2616.00	82780.00	4960.00	82350.00	4
5	3072.00	71440.00	-528.00	86830.00	3632.00	86320.00	5
6	4408.00	78140.00	816.00	96270.00	6280.00	96010.00	6
7	6640.00	75900.00	1272.00	92230.00	1000.00	92490.00	7
8	3064.00	83050.00	-3680.00	99870.00	7160.00	99530.00	8
9	7539.00	71440.00	1720.00	85480.00	7160.00	86330.00	9
10	10210.00	75000.00	-3680.00	90880.00	1440.00	92050.00	10
11	840.00	69210.00	-8632.00	77830.00	2760.00	74870.00	11
12	-1397.00	65200.00	-13570.00	73790.00	1000.00	74870.00	12
13	-2290.00	64300.00	-11780.00	74690.00	560.00	75310.00	13
14	-2735.00	62960.00	-12220.00	71540.00	-328.00	70900.00	14
15	-1389.00	63400.00	-9071.00	72880.00	1872.00	72220.00	15
16	840.00	68310.00	-7728.00	78740.00	5400.00	75750.00	16
17	384.00	66980.00	-6832.00	76930.00	2760.00	73990.00	17
18	1280.00	66980.00	-6376.00	77380.00	2760.00	73990.00	18
19	8881.00	66530.00	-1432.00	81430.00	5400.00	82790.00	19
20	7093.00	67420.00	-80.00	83680.00	7160.00	81030.00	20
21	11110.00	72330.00	6224.00	87280.00	112.00	88960.00	21
22	11110.00	66970.00	2616.00	80980.00	3632.00	82800.00	22
23	9773.00	74560.00	6672.00	86830.00	-2968.00	91160.00	23
24	11100.00	77700.00	5768.00	93130.00	3200.00	94690.00	24
25	9320.00	81260.00	-1432.00	98520.00	552.00	97340.00	25
26	5304.00	72780.00	824.00	85480.00	992.00	87200.00	26
27	11100.00	84830.00	4864.00	99420.00	-2528.00	102200.00	27
28	4192.00	76350.00	3968.00	91330.00	4520.00	92490.00	28
29	9774.00	65630.00	1720.00	79180.00	2312.00	81480.00	29



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 136

TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	226000.00	18100.00	244000.00	205300.00	-3560.00	75640.00	1
2	229800.00	11630.00	245300.00	218200.00	-2232.00	76970.00	2
3	247300.00	12290.00	259600.00	229800.00	2672.00	75630.00	3
4	275700.00	18740.00	299600.00	257000.00	8448.00	83200.00	4
5	314500.00	23910.00	342300.00	290600.00	9792.00	89870.00	5
6	314500.00	49770.00	388800.00	260800.00	8448.00	144600.00	6
7	328700.00	27790.00	349400.00	299600.00	19140.00	105400.00	7
8	334500.00	56880.00	418600.00	259600.00	14680.00	132100.00	8
9	321000.00	23910.00	349900.00	290600.00	12010.00	86760.00	9
10	337800.00	22620.00	360400.00	293200.00	15570.00	89420.00	10
11	250500.00	7760.00	258300.00	231100.00	5347.00	40040.00	11
12	220100.00	7112.00	233700.00	207900.00	-3107.00	52050.00	12
13	234900.00	8408.00	245300.00	218200.00	452.00	60950.00	13
14	221400.00	8400.00	232400.00	213000.00	-882.50	62290.00	14
15	204600.00	9696.00	220800.00	193600.00	-1784.00	67620.00	15
16	236300.00	9048.00	249200.00	219500.00	5786.00	62730.00	16
17	243400.00	8408.00	251800.00	228500.00	5346.00	54280.00	17
18	259600.00	10340.00	271200.00	249200.00	4457.00	48940.00	18
19	284700.00	19390.00	308700.00	264700.00	11570.00	69400.00	19
20	313200.00	18740.00	320000.00	281500.00	11570.00	62280.00	20
21	304700.00	35540.00	345600.00	254400.00	13800.00	73410.00	21
22	310600.00	17460.00	328100.00	290600.00	12910.00	54720.00	22
23	311300.00	34900.00	385000.00	254400.00	16460.00	83200.00	23
24	357200.00	25210.00	382400.00	326800.00	12020.00	71630.00	24
25	374000.00	39420.00	425000.00	308700.00	7120.00	101400.00	25
26	352600.00	23260.00	377200.00	321600.00	11120.00	73400.00	26
27	349400.00	40720.00	404400.00	294500.00	9792.00	108600.00	27
28	339100.00	29080.00	372000.00	302200.00	16020.00	89870.00	28
29	245400.00	16160.00	288000.00	242800.00	9790.00	70290.00	29

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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 136  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/29/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	1824.00	84060.00	-8595.00	69390.00	4312.00	71050.00	1
2	856.00	86970.00	-9502.00	72100.00	5208.00	74660.00	2
3	1832.00	85030.00	-7699.00	71200.00	5664.00	73310.00	3
4	2792.00	89860.00	408.00	74790.00	2944.00	76930.00	4
5	2312.00	95180.00	2664.00	80650.00	3848.00	80550.00	5
6	-8320.00	136700.00	-8152.00	132900.00	-16960.00	116800.00	6
7	-4384.00	116400.00	9872.00	90560.00	-4288.00	98660.00	7
8	-12660.00	133400.00	4912.00	118000.00	-15150.00	114900.00	8
9	856.00	91800.00	2664.00	76150.00	1584.00	78290.00	9
10	-6384.00	96140.00	6720.00	77500.00	2040.00	82360.00	10
11	-1547.00	43970.00	-1835.00	40100.00	6124.00	39370.00	11
12	3768.00	56050.00	-11750.00	49110.00	8839.00	47520.00	12
13	2315.00	65220.00	-11300.00	58580.00	10650.00	55660.00	13
14	3283.00	66190.00	-11750.00	59930.00	10650.00	55660.00	14
15	2312.00	73930.00	-14010.00	62190.00	9738.00	61990.00	15
16	-592.00	71020.00	-11300.00	58580.00	6124.00	61090.00	16
17	386.00	59430.00	-4539.00	50920.00	7481.00	50680.00	17
18	-1547.00	50730.00	-5440.00	43710.00	4314.00	43900.00	18
19	864.00	76340.00	868.50	64430.00	5666.00	64250.00	19
20	384.00	69090.00	2220.00	58580.00	4313.00	58380.00	20
21	-1552.00	80690.00	1317.00	66680.00	3858.00	68780.00	21
22	-2030.00	60880.00	4473.00	50010.00	2051.00	51590.00	22
23	-10250.00	86490.00	7173.00	72540.00	-7912.00	74220.00	23
24	-584.00	74890.00	2669.00	65330.00	2504.00	61090.00	24
25	-8320.00	109700.00	5360.00	95070.00	-8360.00	96390.00	25
26	-3000.00	77300.00	4015.00	65780.00	-2928.00	63810.00	26
27	-12180.00	120300.00	3120.00	100900.00	-8816.00	105900.00	27
28	-2040.00	96630.00	9424.00	78400.00	240.00	81460.00	28
29	-104.00	76340.00	-1387.00	64890.00	6118.00	63800.00	29

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 136  
TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	264.20	264.40	264.10	1.01	1.02	1.00	1
2	264.50	264.60	264.30	1.01	1.02	.99	2
3	264.50	264.60	264.10	1.01	1.02	.98	3
4	264.30	264.60	264.10	.97	1.00	.95	4
5	264.20	264.60	264.10	.99	1.05	.95	5
6	265.30	266.00	263.10	1.22	1.28	.81	6
7	263.80	264.60	263.30	1.03	1.11	.91	7
8	264.80	265.60	263.30	.94	1.24	.85	8
9	264.40	264.60	263.90	1.05	1.08	1.00	9
10	264.60	265.10	263.30	1.12	1.17	.85	10
11	264.20	264.30	263.90	1.01	1.02	.98	11
12	264.80	265.30	264.30	.96	1.02	.93	12
13	264.20	264.30	263.70	1.03	1.04	.97	13
14	264.20	264.30	263.90	1.00	1.01	.99	14
15	264.70	264.90	263.50	1.02	1.05	.95	15
16	263.90	264.30	263.30	.97	1.03	.89	16
17	264.00	264.10	263.70	.99	1.04	.97	17
18	263.90	264.10	263.70	.99	1.00	.96	18
19	264.40	264.60	263.90	1.02	1.07	.98	19
20	263.90	264.10	263.70	1.00	1.08	.90	20
21	264.90	265.30	263.30	1.08	1.18	.87	21
22	264.10	264.30	263.90	.97	.99	.95	22
23	264.80	265.30	263.10	1.04	1.21	.83	23
24	264.10	264.40	263.90	1.06	1.08	.94	24
25	264.80	265.30	263.10	1.01	1.27	.81	25
26	264.10	264.30	263.70	.89	1.04	.86	26
27	263.40	264.90	262.90	.99	1.24	.79	27
28	264.30	264.60	263.30	1.04	1.15	.86	28
29	263.90	264.60	263.50	.98	1.06	.95	29



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 136  
TQGW 20800 TQCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	.16	.98	-.17	.41	.92	-.19	1
2	.07	1.31	-.84	-1.17	-.70	-1.81	2
3	-.67	.16	-1.00	-2.88	-1.90	-3.35	3
4	.16	.32	-1.33	-4.76	-3.95	-5.06	4
5	.24	1.31	-1.00	-3.86	-3.09	-6.00	5
6	1.48	1.81	-2.32	-1.17	2.71	-6.60	6
7	-1.33	.49	-2.32	-6.25	-4.03	-6.77	7
8	-.50	.65	-2.65	-3.05	-.79	-6.60	8
9	-1.17	-1.00	-1.83	-4.55	-3.27	-4.89	9
10	-.67	.49	-1.50	-1.81	-1.22	-7.54	10
11	.65	1.31	-.17	3.87	4.34	3.14	11
12	.90	1.31	-.01	3.01	3.65	2.03	12
13	.40	1.15	-.84	1.90	2.89	1.35	13
14	.82	1.31	.16	3.31	3.40	2.80	14
15	.65	1.31	.16	-.83	-.19	-1.47	15
16	3.38	4.45	2.63	-1.04	-.02	-1.64	16
17	2.22	2.96	1.31	-.19	.92	-.45	17
18	.90	1.15	-.01	-.49	.83	-.70	18
19	1.56	2.30	-.34	-1.56	-1.39	-3.44	19
20	3.05	3.30	2.14	-2.84	-1.98	-3.95	20
21	-.26	1.15	-2.32	-1.85	-.62	-5.31	21
22	1.56	1.64	1.15	-3.22	-3.09	-3.86	22
23	-.50	1.97	-2.82	-3.27	1.52	-5.23	23
24	-.67	-.34	-1.33	-3.65	-3.18	-5.06	24
25	-.17	1.64	-1.99	-3.56	-.62	-7.62	25
26	-.17	.65	-1.17	-6.47	-4.46	-6.94	26
27	2.72	5.11	-1.17	-2.97	-1.47	-7.45	27
28	-.17	.65	-2.65	-7.28	-4.03	-7.96	28
29	.16	1.31	-.17	-2.62	-2.15	-4.03	29

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 137  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	156100.00	17410.00	178600.00	136100.00	2176.00	76800.00	2
3	139300.00	8384.00	147700.00	128400.00	-1840.00	70100.00	3
4	142500.00	7736.00	151600.00	133500.00	-2736.00	72780.00	4
5	187700.00	9032.00	199300.00	174800.00	1728.00	76350.00	5
6	206400.00	13540.00	225100.00	191500.00	4408.00	75460.00	6
7	225100.00	12900.00	238000.00	200600.00	4859.00	68760.00	7
8	250900.00	15480.00	271500.00	232800.00	7984.00	76350.00	8
9	250900.00	15480.00	284400.00	231500.00	7093.00	71880.00	9
10	277300.00	17410.00	294700.00	243100.00	8424.00	74120.00	10
11	267000.00	17410.00	284400.00	245700.00	12450.00	65630.00	11
12	174800.00	9032.00	186400.00	159300.00	2183.00	58040.00	12
13	203100.00	11610.00	216000.00	190300.00	4861.00	65190.00	13
14	253400.00	16770.00	274100.00	236700.00	6640.00	75010.00	14
15	266300.00	15470.00	290800.00	247000.00	7536.00	76800.00	15
16	266300.00	19340.00	290800.00	240500.00	8872.00	82600.00	16
17	127100.00	6448.00	123500.00	116800.00	-3176.00	68760.00	17
18	125800.00	6448.00	138700.00	119300.00	-1390.00	66080.00	18
19	121900.00	6448.00	124800.00	111600.00	-496.00	61620.00	19
20	142500.00	10310.00	152800.00	124500.00	1290.00	64290.00	20
21	144400.00	8384.00	179900.00	150300.00	1728.00	70100.00	21
22	200600.00	10310.00	213500.00	179900.00	3512.00	73670.00	22
23	185700.00	10960.00	196700.00	161900.00	-2736.00	82610.00	23
24	188700.00	8384.00	172200.00	150300.00	-2288.00	75010.00	24
25	127700.00	7088.00	126100.00	115500.00	-4070.00	68760.00	25

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 137  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	14370.00	73760.00	-8176.00	88180.00	8928.00	84560.00	2
3	11180.00	67850.00	-12670.00	80080.00	-768.00	80160.00	3
4	9816.00	72860.00	-13130.00	83220.00	-1208.00	85000.00	4
5	9816.00	72860.00	-7280.00	88180.00	2752.00	84560.00	5
6	7536.00	74220.00	-3680.00	87280.00	2752.00	83680.00	6
7	8908.00	66480.00	-2784.00	80080.00	3200.00	77070.00	7
8	3888.00	76960.00	1264.00	87730.00	-768.00	87200.00	8
9	2528.00	72860.00	3968.00	83230.00	-2088.00	84120.00	9
10	3432.00	76500.00	1272.00	85930.00	-2088.00	87640.00	10
11	1616.00	70130.00	5768.00	76940.00	-3848.00	82360.00	11
12	7542.00	56010.00	-5473.00	68380.00	3640.00	65180.00	12
13	4172.00	63750.00	-528.00	75140.00	560.00	74430.00	13
14	5256.00	74680.00	376.00	85930.00	1872.00	85440.00	14
15	3888.00	76050.00	5768.00	86820.00	1432.00	85880.00	15
16	7072.00	81060.00	7120.00	96270.00	5840.00	92930.00	16
17	8902.00	69210.00	-13130.00	78730.00	-768.00	81040.00	17
18	9819.00	65570.00	-10880.00	75590.00	2760.00	77510.00	18
19	11640.00	60110.00	-7727.00	71540.00	4520.00	71350.00	19
20	12090.00	65110.00	-7728.00	75140.00	9367.00	73550.00	20
21	7087.00	68310.00	-5928.00	81430.00	5400.00	77510.00	21
22	4168.00	72860.00	-1880.00	85480.00	3632.00	82800.00	22
23	8440.00	81510.00	-10430.00	95820.00	2760.00	96890.00	23
24	7080.00	73770.00	-10870.00	86380.00	-1648.00	87200.00	24
25	8446.00	68750.00	-14020.00	78730.00	112.00	81040.00	25



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 137

TOW 20800 TCR 9.7 AFT FLIGHT DATE 08/29/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	310000.00	10340.00	320300.00	297100.00	8016.00	43600.00	2
3	244000.00	9056.00	249600.00	232400.00	3120.00	66290.00	3
4	224600.00	10980.00	237600.00	215600.00	2672.00	78300.00	4
5	246000.00	13580.00	259600.00	231100.00	2672.00	89870.00	5
6	248600.00	18100.00	288000.00	249200.00	24020.00	118300.00	6
7	288000.00	34900.00	322900.00	251800.00	8008.00	90760.00	7
8	311300.00	21980.00	325800.00	278900.00	19130.00	123200.00	8
9	307400.00	21980.00	332000.00	280200.00	15120.00	114800.00	9
10	319700.00	23910.00	343600.00	288000.00	13790.00	112600.00	10
11	335200.00	21330.00	356500.00	300900.00	15130.00	93430.00	11
12	235000.00	11640.00	246600.00	214300.00	2677.00	64960.00	12
13	255700.00	14220.00	271200.00	240200.00	5784.00	72520.00	13
14	302200.00	21980.00	328100.00	280200.00	14240.00	98770.00	14
15	315800.00	22620.00	342300.00	288000.00	18240.00	109900.00	15
16	338400.00	31020.00	369400.00	299600.00	13790.00	112600.00	16
17	205300.00	12930.00	218200.00	191000.00	-4448.00	75630.00	17
18	207200.00	10980.00	220800.00	193600.00	-2224.00	80530.00	18
19	234900.00	10980.00	255700.00	226000.00	-2224.00	68060.00	19
20	291200.00	7104.00	299600.00	280200.00	4012.00	58280.00	20
21	224000.00	13580.00	240200.00	206600.00	17790.00	108600.00	21
22	244700.00	16160.00	244700.00	223400.00	14680.00	100100.00	22
23	222100.00	15510.00	250500.00	206600.00	3552.00	105900.00	23
24	215600.00	12920.00	229800.00	201400.00	-3112.00	86760.00	24
25	194900.00	10990.00	210400.00	180700.00	-4008.00	78740.00	25

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 137  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-1547.00	44930.00	-3187.00	42350.00	5671.00	41630.00	2
3	-2032.00	73440.00	-7695.00	61280.00	7024.00	61090.00	3
4	-1552.00	88420.00	-9048.00	70740.00	8376.00	74220.00	4
5	-3000.00	101500.00	-8600.00	79300.00	5664.00	85980.00	5
6	-11220.00	122200.00	8072.00	102300.00	-3840.00	108200.00	6
7	-6864.00	100500.00	-40.00	79750.00	-672.00	87790.00	7
8	-5904.00	123700.00	9872.00	105900.00	-5200.00	105900.00	8
9	-8800.00	116900.00	10780.00	105900.00	-4744.00	101800.00	9
10	-7832.00	119800.00	11670.00	102300.00	-6552.00	102700.00	10
11	-8808.00	99530.00	13930.00	87420.00	-7008.00	88700.00	11
12	384.00	73920.00	-5898.00	61290.00	4765.00	64260.00	12
13	-104.00	82140.00	-936.50	65340.00	2496.00	71950.00	13
14	-6872.00	106300.00	5816.00	86500.00	-7008.00	91410.00	14
15	-9760.00	113100.00	11670.00	95980.00	-9272.00	96390.00	15
16	-16540.00	116900.00	9872.00	104100.00	-17870.00	100500.00	16
17	376.00	85510.00	-10850.00	68940.00	5208.00	71050.00	17
18	-3008.00	87940.00	-10850.00	73450.00	-224.00	73760.00	18
19	864.00	75380.00	-8149.00	62640.00	3404.00	64710.00	19
20	7150.00	56530.00	-3187.00	57670.00	7934.00	50230.00	20
21	-12180.00	102900.00	-4992.00	89220.00	-1120.00	86430.00	21
22	-4936.00	102400.00	-488.00	82900.00	-4296.00	85080.00	22
23	-2520.00	110600.00	-10400.00	89220.00	-672.00	92320.00	23
24	-3000.00	96630.00	-12200.00	76600.00	1592.00	79190.00	24
25	376.00	86490.00	-12650.00	70740.00	4304.00	71950.00	25

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 137  
TGW 20800 TACG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.00	264.10	263.70	.99	1.01	.98	2
3	263.90	264.30	263.70	.98	.99	.97	3
4	264.10	264.30	263.90	1.01	1.02	.99	4
5	263.70	264.10	263.50	1.01	1.02	.98	5
6	264.30	264.40	263.70	1.03	1.08	.99	6
7	263.90	264.40	263.70	.98	1.06	.97	7
8	264.00	264.10	263.50	.98	1.04	.97	8
9	263.70	264.40	263.50	.97	1.07	.92	9
10	264.00	264.30	263.90	1.01	1.03	.96	10
11	264.30	264.40	263.70	1.01	1.05	1.00	11
12	264.30	264.40	263.70	1.03	1.04	1.00	12
13	264.00	264.10	263.70	1.01	1.03	1.00	13
14	263.90	264.10	263.50	.97	1.02	.97	14
15	263.90	264.10	263.50	.98	1.01	.92	15
16	263.90	264.30	263.50	1.04	1.06	.94	16
17	264.00	264.30	263.90	1.01	1.03	1.00	17
18	247.60	248.10	247.40	1.01	1.02	.98	18
19	247.60	247.70	247.20	1.01	1.02	1.00	19
20	247.60	247.90	247.50	.99	1.01	.98	20
21	247.40	248.20	247.20	1.01	1.05	.97	21
22	247.60	248.40	247.20	.96	1.00	.93	22
23	264.00	264.10	263.30	1.01	1.03	.98	23
24	263.90	264.10	263.30	.99	1.01	.96	24
25	263.90	264.60	263.50	1.03	1.04	.99	25



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 137  
TGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/29/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	1.48	2.30	.49	3.48	5.02	1.35	2
3	.82	.98	-.01	-.15	-.02	-1.56	3
4	.82	1.31	.49	.19	.32	-.19	4
5	.40	1.81	-.67	-2.07	-1.81	-2.41	5
6	-.26	.16	-1.00	-1.60	-1.30	-2.41	6
7	-.34	.65	-.50	-2.24	-1.13	-3.44	7
8	-.75	-.01	-2.16	-3.91	-2.92	-4.20	8
9	-2.07	-.67	-2.32	-5.10	-1.98	-5.31	9
10	.98	1.31	.49	-5.36	-4.12	-5.74	10
11	.49	.82	-.67	-4.12	-2.75	-4.38	11
12	-.50	-.17	-1.00	.58	.83	.07	12
13	-.34	.16	-1.17	-1.47	-.70	-1.73	13
14	.65	1.81	.49	-3.82	-3.44	-4.38	14
15	-.34	.65	-.50	-3.95	-3.78	-6.08	15
16	-.09	3.30	-.84	-3.86	-3.61	-6.25	16
17	-.34	.32	-1.50	.15	.41	-.36	17
18	-1.66	-.34	-1.83	-.87	-.19	-1.13	18
19	-1.33	-1.17	-1.83	1.05	1.60	.66	19
20	1.15	1.31	-1.00	1.60	3.48	1.26	20
21	-.42	.82	-1.33	-3.91	-.96	-4.12	21
22	-1.41	-1.00	-2.49	-4.42	-3.95	-5.83	22
23	-1.66	-.67	-2.32	-4.63	-3.78	-5.31	23
24	-.09	.32	-.84	-2.50	-2.32	-3.35	24
25	-1.74	.49	-2.49	-.75	-.19	-1.30	25

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 138  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
1	103200.00	7096.00	111600.00	94830.00	-4403.00	65200.00	1
2	151600.00	11620.00	143200.00	132300.00	-3960.00	71900.00	2
3	242000.00	7744.00	254800.00	234200.00	-2617.00	42870.00	3
4	227400.00	14840.00	245200.00	222600.00	7655.00	51350.00	4
5	258700.00	26130.00	294800.00	198100.00	-2170.00	45100.00	5
6	270300.00	16770.00	227100.00	221300.00	1840.00	83060.00	6
7	255500.00	34200.00	307800.00	198100.00	-4850.00	64750.00	7
8	157400.00	8384.00	174800.00	145200.00	-2624.00	73230.00	8
9	229000.00	14190.00	249700.00	214800.00	5264.00	77260.00	9
10	281300.00	18710.00	310300.00	261300.00	6304.00	78590.00	10
11	294200.00	26450.00	326100.00	248400.00	8536.00	86180.00	11
12	285200.00	31620.00	342600.00	205800.00	12560.00	93780.00	12
13	240000.00	18060.00	298700.00	238100.00	-2176.00	79940.00	13
14	277400.00	18710.00	311600.00	257400.00	8984.00	85740.00	14
15	280700.00	19360.00	323400.00	253600.00	5856.00	83500.00	15
16	318100.00	24520.00	345200.00	253600.00	7648.00	83500.00	16
17	271600.00	24520.00	351600.00	214800.00	9880.00	83940.00	17
18	253600.00	25820.00	306500.00	208400.00	10330.00	84390.00	18
19	249000.00	29030.00	300000.00	173600.00	10780.00	82170.00	19
20	220000.00	21940.00	292300.00	155500.00	7200.00	79490.00	20
21	327800.00	54850.00	386500.00	194200.00	4072.00	95110.00	21
22	304500.00	26460.00	327400.00	274200.00	18370.00	88860.00	22
23	318700.00	26780.00	358100.00	260000.00	5416.00	81270.00	23
24	341300.00	40000.00	381300.00	274200.00	60780.00	127700.00	24
25	249700.00	22580.00	293600.00	244500.00	29980.00	78150.00	25
26	276800.00	34840.00	315500.00	214800.00	9882.00	75010.00	26
27	274200.00	30980.00	325800.00	230300.00	7648.00	112100.00	27
28	171000.00	23220.00	223900.00	69020.00	-2176.00	79040.00	28
29	212300.00	38710.00	251000.00	118100.00	-1288.00	86180.00	29
30	167100.00	11620.00	185200.00	125800.00	1392.00	78140.00	30
31	182600.00	10330.00	200700.00	136100.00	1400.00	77260.00	31
32	213600.00	18060.00	229400.00	124500.00	504.00	85290.00	32
33	210300.00	16140.00	242000.00	123200.00	8536.00	90650.00	33
34	297400.00	20650.00	323200.00	227700.00	-2176.00	90660.00	34
35	304500.00	22580.00	323600.00	243200.00	11220.00	79940.00	35
36	98700.00	27100.00	142600.00	-54850.00	4520.00	70550.00	36

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 138

TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	7460.00	65050.00	-11910.00	75100.00	1936.00	78510.00	1
2	12010.00	47780.00	-11460.00	82740.00	5904.00	81600.00	2
3	4735.00	40490.00	-6505.00	49910.00	2390.00	47200.00	3
4	4280.00	53680.00	7885.00	56210.00	-5112.00	60870.00	4
5	5644.00	44130.00	-6955.00	51260.00	4154.00	53370.00	5
6	2000.00	86900.00	-2464.00	91730.00	-2472.00	96150.00	6
7	-6646.00	60060.00	-6962.00	71050.00	-15700.00	68810.00	7
8	9281.00	70510.00	-8760.00	83640.00	4144.00	82480.00	8
9	5176.00	78250.00	2928.00	89940.00	3712.00	90860.00	9
10	3816.00	79610.00	3376.00	91280.00	5032.00	92180.00	10
11	3816.00	88710.00	8776.00	102100.00	3264.00	105400.00	11
12	-280.00	99180.00	6976.00	113800.00	-3800.00	116900.00	12
13	16110.00	78250.00	-11010.00	99380.00	9000.00	98810.00	13
14	-4832.00	88260.00	6080.00	96670.00	-10410.00	102300.00	14
15	632.00	88260.00	2480.00	98480.00	-1144.00	102800.00	15
16	1088.00	88720.00	2480.00	98480.00	-2912.00	104500.00	16
17	10180.00	87800.00	5176.00	101200.00	6792.00	105400.00	17
18	3360.00	84620.00	-1120.00	99380.00	176.00	97040.00	18
19	3816.00	81430.00	3832.00	94420.00	-1144.00	95720.00	19
20	8824.00	80070.00	2032.00	94430.00	4584.00	92630.00	20
21	7456.00	95090.00	2936.00	110600.00	5032.00	109000.00	21
22	19740.00	90980.00	15070.00	109300.00	24870.00	107600.00	22
23	17470.00	82340.00	-8760.00	96230.00	17820.00	97920.00	23
24	24560.00	105100.00	40490.00	145700.00	23550.00	128400.00	24
25	176.00	77790.00	33060.00	91280.00	-264.00	97480.00	25
26	18840.00	77340.00	2480.00	91280.00	4152.00	90420.00	26
27	-8464.00	149200.00	5632.00	128600.00	-6440.00	169800.00	27
28	10650.00	79160.00	-15950.00	91730.00	-704.00	96160.00	28
29	7008.00	82800.00	-5616.00	100300.00	-2472.00	99690.00	29
30	10190.00	75060.00	-8760.00	90820.00	5472.00	86450.00	30
31	11550.00	74610.00	-9656.00	89030.00	2384.00	86020.00	31
32	12920.00	81430.00	-9456.00	100700.00	2376.00	97480.00	32
33	1088.00	93260.00	1584.00	101200.00	-2472.00	100600.00	33
34	8824.00	85530.00	-12350.00	103400.00	176.00	102300.00	34
35	5640.00	82340.00	3824.00	95330.00	616.00	97480.00	35
36	10190.00	70510.00	-17300.00	79600.00	17820.00	88220.00	36



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 138

TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	207000.00	11100.00	223300.00	195900.00	-4088.00	70070.00	1
2	228600.00	6528.00	300300.00	276800.00	-61.50	65160.00	2
3	317300.00	6528.00	323800.00	308100.00	385.00	29010.00	3
4	319200.00	15010.00	326800.00	301600.00	-2740.00	37490.00	4
5	302900.00	35240.00	341600.00	267700.00	-508.00	29010.00	5
6	325100.00	14360.00	344700.00	289900.00	9311.00	52220.00	6
7	322500.00	28720.00	379900.00	267700.00	11540.00	61580.00	7
8	224000.00	11100.00	242900.00	208900.00	824.00	80330.00	8
9	276200.00	18330.00	295100.00	253300.00	11540.00	97300.00	9
10	323200.00	24140.00	352500.00	295100.00	12420.00	99080.00	10
11	359700.00	37200.00	396900.00	296400.00	40100.00	141900.00	11
12	338200.00	52210.00	410000.00	232400.00	36090.00	186100.00	12
13	310100.00	34590.00	344700.00	272900.00	20460.00	118700.00	13
14	309400.00	22180.00	342100.00	287300.00	18220.00	96850.00	14
15	350600.00	33280.00	386400.00	301600.00	11090.00	128100.00	15
16	357700.00	33940.00	391700.00	275500.00	7520.00	122700.00	16
17	329500.00	43070.00	394300.00	250700.00	28050.00	143300.00	17
18	305500.00	31320.00	351200.00	244200.00	41880.00	139200.00	18
19	293100.00	35900.00	322900.00	236400.00	26260.00	162000.00	19
20	277500.00	34590.00	322500.00	219400.00	10190.00	150400.00	20
21	373400.00	49180.00	456900.00	227200.00	14210.00	133900.00	21
22	344000.00	33280.00	389100.00	304200.00	13320.00	103500.00	22
23	355100.00	48300.00	425600.00	296400.00	18670.00	100900.00	23
24	340800.00	36540.00	394300.00	302900.00	50370.00	145900.00	24
25	306800.00	24800.00	325600.00	265100.00	12870.00	84340.00	25
26	286000.00	45680.00	340800.00	240300.00	9304.00	94170.00	26
27	290500.00	39820.00	340800.00	250700.00	13770.00	118300.00	27
28	172400.00	23490.00	233700.00	138500.00	-512.00	100400.00	28
29	272900.00	53510.00	346000.00	167200.00	824.00	95510.00	29
30	239600.00	13700.00	257200.00	189400.00	3496.00	82120.00	30
31	225300.00	13700.00	259800.00	207600.00	-72.00	82120.00	31
32	252700.00	34590.00	319900.00	205000.00	7960.00	102600.00	32
33	283300.00	28720.00	312100.00	206300.00	-4088.00	132600.00	33
34	352500.00	26100.00	396900.00	312100.00	4840.00	95960.00	34
35	357700.00	31320.00	389100.00	286000.00	21790.00	100400.00	35
36	215500.00	23490.00	249000.00	-12930.00	-11220.00	71850.00	36

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 138  
TCGW 20800 TCCR 9.7 AFT FLIGHT DATE 08/30/77

EVENT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	-11180.00	63650.00	5724.00	65330.00	1
2	-6219.00	63210.00	9801.00	62150.00	2
3	-5309.00	27990.00	4817.00	29040.00	3
4	-12080.00	37470.00	-2897.00	29490.00	4
5	-343.00	30250.00	9807.00	31310.00	5
6	3268.00	48300.00	-174.50	47640.00	6
7	4171.00	53720.00	-3350.00	52630.00	7
8	-8476.00	73590.00	8442.00	73490.00	8
9	-2608.00	85780.00	5712.00	90740.00	9
10	3264.00	86220.00	2536.00	91190.00	10
11	20870.00	119200.00	2536.00	123000.00	11
12	11380.00	167500.00	4808.00	149700.00	12
13	4168.00	102500.00	7528.00	108900.00	13
14	7776.00	86220.00	3448.00	87560.00	14
15	5064.00	123200.00	-1992.00	113900.00	15
16	2360.00	117800.00	-6984.00	111600.00	16
17	11390.00	128700.00	-1544.00	125200.00	17
18	24030.00	116000.00	13880.00	115200.00	18
19	-2608.00	142700.00	272.00	124300.00	19
20	-4864.00	135900.00	1632.00	132900.00	20
21	2808.00	120100.00	-10170.00	123000.00	21
22	1456.00	93440.00	1184.00	91650.00	22
23	1000.00	90280.00	14340.00	92100.00	23
24	25830.00	125900.00	27040.00	115700.00	24
25	3712.00	76740.00	12530.00	75760.00	25
26	552.00	82620.00	8896.00	83940.00	26
27	1448.00	108800.00	-4264.00	127900.00	27
28	-12540.00	94800.00	5264.00	96640.00	28
29	-11180.00	90740.00	-2448.00	81660.00	29
30	-6664.00	77190.00	8896.00	80300.00	30
31	-11630.00	78540.00	7528.00	80760.00	31
32	-18410.00	91640.00	7528.00	89830.00	32
33	-13440.00	121900.00	-19700.00	132500.00	33
34	-10740.00	86670.00	2992.00	88930.00	34
35	8680.00	85320.00	2536.00	98460.00	35
36	-32400.00	73140.00	11620.00	77580.00	36

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 138  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	264.20	264.40	264.10	.98	.99	.97	1
2	264.30	264.40	264.10	1.00	1.01	.99	2
3	264.30	264.40	264.10	1.00	1.01	1.00	3
4	264.30	264.60	263.90	1.01	1.02	.98	4
5	264.30	264.90	263.70	1.01	1.06	.95	5
6	264.40	264.60	263.70	1.00	1.02	.98	6
7	264.30	264.60	263.70	1.00	1.02	.98	7
8	264.80	265.10	264.10	1.00	1.03	.98	8
9	264.70	264.90	264.10	1.03	1.08	1.01	9
10	264.30	264.40	263.90	1.00	1.06	.95	10
11	264.30	264.90	263.50	1.03	1.11	.81	11
12	264.50	266.00	263.50	.93	1.22	.87	12
13	264.70	265.10	264.10	1.12	1.20	.90	13
14	264.70	264.90	263.90	1.02	1.08	.92	14
15	263.90	264.40	263.10	1.11	1.29	1.00	15
16	264.20	264.60	263.30	1.00	1.30	.84	16
17	264.80	265.60	263.50	1.10	1.26	.94	17
18	264.20	265.10	262.80	1.05	1.25	.91	18
19	263.70	265.30	262.80	1.02	1.40	.94	19
20	265.80	267.20	263.30	1.10	1.50	.79	20
21	266.20	271.10	261.30	1.34	1.60	.85	21
22	264.10	264.40	263.70	1.02	1.09	.94	22
23	264.30	264.60	263.70	.95	1.05	.91	23
24	263.30	265.40	262.60	.98	1.07	.88	24
25	263.90	264.30	263.30	.96	1.02	.90	25
26	264.30	264.60	263.90	1.01	1.10	.96	26
27	263.80	265.30	262.40	1.00	1.08	.91	27
28	266.00	268.80	262.20	1.02	1.43	.75	28
29	266.70	270.40	262.60	1.22	1.62	.86	29
30	264.30	266.00	262.90	1.15	1.29	.95	30
31	263.80	265.60	262.60	1.16	1.33	1.00	31
32	263.70	265.80	262.20	1.15	1.54	.97	32
33	265.90	267.20	262.60	1.17	1.59	.85	33
34	264.60	265.10	262.60	1.13	1.17	.92	34
35	264.10	264.60	263.10	.93	1.15	.85	35
36	264.80	286.10	258.30	1.24	1.53	.79	36



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# FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 138  
T0GW 20800 T0CG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	-.04	.12	-.21	.61	1.68	-.12	1
2	-.04	.12	-.21	.35	1.59	-.21	2
3	-.04	.12	-.21	.99	1.51	-.64	3
4	-.04	.12	-.21	.52	1.68	-.81	4
5	-.04	.12	-.21	.39	1.59	-.89	5
6	-.04	.12	-.21	.65	1.59	-.72	6
7	-.04	.12	-.21	.78	1.59	-.29	7
8	-.04	.12	-.21	.82	1.59	-.47	8
9	-.04	.12	-.21	.91	1.68	-.12	9
10	-.04	.12	-.21	.61	1.59	-.21	10
11	-.04	.12	-.21	.82	1.76	-.12	11
12	.04	.29	-.21	.61	1.85	-.29	12
13	-.04	.12	-.21	.86	1.68	-.12	13
14	-.04	.12	-.21	1.03	1.76	-.12	14
15	-.04	.12	-.21	.78	2.11	-.21	15
16	.04	7.40	-30.16	-2.27	-.55	-5.87	16
17	14.27	30.90	-5.34	-3.34	-.47	-7.41	17
18	-17.75	10.88	-33.97	-2.74	-.29	-7.93	18
19	2.94	37.36	-9.81	-.12	.73	-5.18	19
20	-.46	1.11	-2.03	-3.47	7.17	-10.24	20
21	.95	1.78	-.04	-2.48	-1.92	-5.44	21
22	-1.86	.45	-3.19	-4.97	-4.50	-6.21	22
23	.87	1.45	.12	-6.21	-5.52	-6.81	23
24	1.69	3.10	-1.04	-6.55	-5.18	-6.81	24
25	-2.11	.78	-2.86	-5.57	-5.10	-6.64	25
26	1.11	1.61	.78	-5.01	-2.87	-5.44	26
27	-.04	2.11	-.71	-3.68	-2.52	-3.90	27
28	1.03	1.45	-1.20	-6.94	3.65	-13.24	28
29	.20	.78	-1.70	.05	.91	-1.41	29
30	6.91	33.05	-2.86	.73	5.36	-2.27	30
31	-18.17	3.43	-35.96	-.47	2.62	-3.64	31
32	-31.74	2.77	-49.86	3.05	5.36	-2.10	32
33	22.30	49.60	-.04	.13	4.77	-1.49	33
34	-1.70	1.11	-3.85	-9.94	2.19	-21.91	34
35	-.46	1.61	-1.86	-1.07	.65	-5.52	35
36	.04	14.69	-25.04	5.79	13.00	2.11	36

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139

TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	116100.00	9680.00	173600.00	106400.00	-56.00	78600.00	2
3	110300.00	10330.00	171000.00	99980.00	-2744.00	78600.00	3
4	122900.00	12260.00	216100.00	109000.00	-3184.00	81730.00	4
5	174100.00	10320.00	199400.00	87070.00	-3184.00	83520.00	5
6	127400.00	7744.00	165800.00	129700.00	-2744.00	74140.00	6
7	103900.00	12910.00	186400.00	90940.00	-2736.00	81280.00	7
8	166400.00	10980.00	185200.00	72880.00	-7208.00	83060.00	8
9	145800.00	7096.00	145800.00	138700.00	-3632.00	75020.00	9
10	211600.00	32310.00	244500.00	146400.00	-7200.00	92900.00	10
11	142200.00	10980.00	174800.00	125800.00	-1400.00	74580.00	11
12	149000.00	12910.00	147100.00	36750.00	4408.00	77700.00	12
13	240700.00	12910.00	240000.00	227700.00	3960.00	72790.00	13
14	188400.00	9680.00	205800.00	132200.00	840.00	74140.00	14
15	192900.00	14200.00	243900.00	178700.00	832.00	80380.00	15
16	185800.00	10980.00	221300.00	158100.00	-952.00	78600.00	16
17	187700.00	14190.00	216100.00	147700.00	3512.00	75930.00	17
18	241300.00	14840.00	256100.00	183900.00	1280.00	75470.00	18
19	174300.00	27100.00	253600.00	137400.00	1728.00	76820.00	19
20	212300.00	9032.00	221300.00	203200.00	-512.00	71900.00	20
21	214800.00	9032.00	225200.00	201900.00	3960.00	79050.00	21
22	147100.00	14200.00	182600.00	152900.00	3512.00	75030.00	22
23	180600.00	14840.00	195500.00	165800.00	840.00	63670.00	23
24	157400.00	17420.00	182600.00	124500.00	2624.00	71460.00	24
25	201900.00	14200.00	216100.00	169700.00	332.00	63330.00	25
26	205200.00	14840.00	220000.00	174800.00	2168.00	73690.00	26
27	174800.00	13550.00	204500.00	163200.00	-1400.00	96020.00	27
28	118100.00	6456.00	131000.00	111600.00	1238.00	63870.00	28
29	70310.00	7743.00	96110.00	62560.00	2131.00	62080.00	29
30	58040.00	8388.00	71580.00	31590.00	841.00	53590.00	30
31	-13580.00	9034.00	41910.00	-22620.00	7034.00	57170.00	31
32	-14870.00	3872.00	-11000.00	-20040.00	3948.00	43570.00	32
33	-18740.00	6453.00	-3257.00	-26490.00	3968.00	52250.00	33
34	-14870.00	9035.00	7068.00	-31650.00	5308.00	53950.00	34
35	-25520.00	10330.00	71580.00	-45850.00	-5412.00	58950.00	35
36	-24550.00	10970.00	1905.00	-35520.00	-52.00	54490.00	36
37	-9710.00	10330.00	615.00	-29070.00	841.00	45550.00	37
38	-14870.00	12910.00	5777.00	-27780.00	334.50	45110.00	38
39	-4548.00	12910.00	8358.00	-32940.00	8880.00	52700.00	39
40	-5193.00	13550.00	9649.00	-18740.00	4861.00	50470.00	40
41	-18740.00	9034.00	94820.00	-44560.00	8878.00	65200.00	41
42	153500.00	8392.00	177400.00	128400.00	-4080.00	71010.00	42
43	127100.00	10320.00	147700.00	111600.00	4858.00	69220.00	43
44	173600.00	11420.00	198100.00	151600.00	-11670.00	63420.00	44
45	122900.00	21300.00	198100.00	78050.00	3960.00	77260.00	45
46	190300.00	25820.00	225200.00	-9710.00	1280.00	77260.00	46
47	178700.00	18070.00	196800.00	30300.00	-56.00	75030.00	47
48	142900.00	15490.00	159300.00	19970.00	4408.00	73240.00	48

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139

TGGW 20800 TCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
49	236100.00	21300.00	257400.00	-27780.00	5304.00	74140.00	49



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139

TGWH 20800 TBCR 9.7 AFT FLIGHT DATE 08/30/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	7448.00	78730.00	-13310.00	89980.00	-3680.00	92990.00	2
3	8816.00	78270.00	-16910.00	89980.00	-2352.00	94320.00	3
4	9272.00	83290.00	-15550.00	94030.00	-1472.00	98720.00	4
5	8360.00	83290.00	-13760.00	96740.00	-1032.00	96520.00	5
6	7448.00	74180.00	-14210.00	84590.00	-3672.00	86820.00	6
7	10640.00	81920.00	-15550.00	93140.00	-152.00	95640.00	7
8	11540.00	84650.00	-20960.00	97630.00	296.00	101400.00	8
9	5632.00	75090.00	-16010.00	85480.00	-4552.00	87700.00	9
10	6088.00	90100.00	-16010.00	108900.00	-4112.00	107500.00	10
11	12460.00	70990.00	-11960.00	85030.00	2056.00	83740.00	11
12	16100.00	73720.00	-3808.00	90890.00	8664.00	87700.00	12
13	7907.00	70080.00	-4312.00	83690.00	2936.00	80220.00	13
14	10640.00	72810.00	-15560.00	86840.00	2936.00	88150.00	14
15	9720.00	76460.00	-6560.00	92240.00	3376.00	88590.00	15
16	8360.00	76010.00	-6560.00	90430.00	5144.00	86820.00	16
17	9277.00	74180.00	-4760.00	86840.00	2936.00	84620.00	17
18	10640.00	70990.00	-4760.00	86840.00	-152.00	83300.00	18
19	7451.00	69620.00	-8808.00	89990.00	-2792.00	84180.00	19
20	11090.00	69630.00	-9256.00	84140.00	3376.00	84180.00	20
21	2440.00	76460.00	-3864.00	88630.00	-2352.00	86380.00	21
22	1536.00	77360.00	-2512.00	87280.00	-5440.00	87710.00	22
23	13820.00	74180.00	-6552.00	80540.00	11300.00	85060.00	23
24	8816.00	68260.00	-4760.00	83240.00	1608.00	78010.00	24
25	8817.00	69170.00	-9712.00	78290.00	4696.00	82860.00	25
26	5168.00	72820.00	-4752.00	85940.00	-5000.00	89910.00	26
27	8816.00	126500.00	-5208.00	104400.00	6464.00	136600.00	27
28	9728.00	60980.00	-6560.00	72430.00	2056.00	71400.00	28
29	8368.00	59420.00	-3856.00	70640.00	728.00	69190.00	29
30	7003.00	55520.00	-8806.00	64790.00	-2349.00	67880.00	30
31	10190.00	55070.00	-4307.00	65690.00	-1025.00	63910.00	31
32	7458.00	48700.00	-7452.00	54440.00	-584.00	52890.00	32
33	7913.00	50060.00	-7451.00	58040.00	-17780.00	58620.00	33
34	11100.00	56890.00	-6109.00	66600.00	-11170.00	63470.00	34
35	3815.00	62350.00	-19150.00	70640.00	-8268.00	77130.00	35
36	7907.00	62800.00	-20950.00	68840.00	-7208.00	77130.00	36
37	12010.00	53250.00	-14200.00	52200.00	-1471.00	64350.00	37
38	2907.00	45050.00	-11510.00	54900.00	-9405.00	56420.00	38
39	13830.00	46870.00	-702.50	61190.00	2061.00	56410.00	39
40	11100.00	48700.00	-11060.00	58050.00	-1025.00	63910.00	40
41	7911.00	66440.00	-2960.00	76030.00	-3672.00	78010.00	41
42	10180.00	68710.00	-14210.00	81890.00	1176.00	83740.00	42
43	10640.00	66440.00	-4312.00	80090.00	5584.00	75810.00	43
44	8368.00	67810.00	-23650.00	76040.00	-1472.00	84620.00	44
45	7456.00	76910.00	-4304.00	89980.00	2928.00	87260.00	45
46	4720.00	79650.00	-7912.00	87290.00	1168.00	87260.00	46
47	10640.00	75340.00	-12410.00	84580.00	728.00	84180.00	47
48	10640.00	73730.00	-8360.00	81430.00	-1032.00	80650.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TGW 20800 TBCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
49	4992.00	78270.00	-3408.00	81890.00	-2352.00	85500.00	49

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	251400.00	16320.00	270400.00	201200.00	2216.00	108500.00	2
3	241000.00	16320.00	261200.00	209000.00	432.00	90660.00	3
4	220100.00	22850.00	320000.00	164600.00	7576.00	138900.00	4
5	319300.00	18930.00	338200.00	145000.00	4448.00	95570.00	5
6	239000.00	10450.00	257300.00	227300.00	432.00	83500.00	6
7	206400.00	14370.00	258600.00	192000.00	2664.00	106300.00	7
8	200500.00	20240.00	257300.00	180300.00	-6712.00	122800.00	8
9	227300.00	15670.00	242900.00	211600.00	1328.00	80830.00	9
10	293800.00	47000.00	340800.00	223400.00	-4430.00	103600.00	10
11	285400.00	15020.00	318700.00	267700.00	880.00	75020.00	11
12	301000.00	17620.00	318700.00	179000.00	4431.00	68770.00	12
13	293900.00	18270.00	316000.00	275600.00	11150.00	95120.00	13
14	249500.00	16970.00	266400.00	189400.00	12940.00	120100.00	14
15	309500.00	19580.00	329100.00	249500.00	17850.00	131300.00	15
16	260600.00	18930.00	284700.00	214200.00	6630.00	128200.00	16
17	254000.00	18930.00	276900.00	186800.00	24930.00	125000.00	17
18	323200.00	20240.00	343500.00	233800.00	24540.00	115700.00	18
19	362400.00	25460.00	387900.00	193300.00	23660.00	139800.00	19
20	269700.00	16320.00	289900.00	253400.00	3112.00	88870.00	20
21	262300.00	13060.00	279500.00	240300.00	11150.00	91550.00	21
22	223400.00	13060.00	242900.00	209000.00	10700.00	86640.00	22
23	223400.00	15660.00	252100.00	207700.00	4000.00	84400.00	23
24	235800.00	17620.00	274300.00	218100.00	5732.00	88860.00	24
25	227300.00	22200.00	249500.00	205100.00	-464.00	79940.00	25
26	218100.00	20890.00	250800.00	197200.00	1768.00	89320.00	26
27	239000.00	18270.00	257300.00	220800.00	-2696.00	99140.00	27
28	148500.00	10440.00	186800.00	154200.00	-16.00	72350.00	28
29	115600.00	12400.00	138500.00	103200.00	-3144.00	72260.00	29
30	82350.00	13060.00	116300.00	65390.00	-10280.00	74580.00	30
31	18400.00	14360.00	75820.00	-22080.00	-11630.00	70570.00	31
32	17090.00	27420.00	44510.00	-11630.00	-6263.00	63420.00	32
33	5993.00	13710.00	23620.00	-14240.00	-4926.00	66550.00	33
34	-1841.00	13710.00	20150.00	-19470.00	-6263.00	63420.00	34
35	-5105.00	15670.00	92800.00	-23380.00	-7160.00	73600.00	35
36	13830.00	20240.00	34060.00	-12940.00	-4040.00	82620.00	36
37	31440.00	37850.00	69300.00	-16850.00	-8493.00	59400.00	37
38	10560.00	26110.00	36670.00	-19470.00	-15640.00	64760.00	38
39	-10330.00	22190.00	26230.00	-32520.00	1768.00	71450.00	39
40	-13590.00	15010.00	2729.00	-31220.00	-8947.00	63420.00	40
41	23620.00	16970.00	139800.00	-16850.00	-10290.00	79940.00	41
42	249000.00	14360.00	283400.00	232500.00	-2248.00	76360.00	42
43	248200.00	14370.00	263800.00	219400.00	6691.00	58500.00	43
44	245800.00	15020.00	310800.00	253400.00	4000.00	84400.00	44
45	235800.00	22850.00	321300.00	212900.00	-16.00	76820.00	45
46	107800.00	21540.00	357800.00	62780.00	2216.00	84410.00	46
47	338900.00	13710.00	352600.00	87580.00	-8944.00	79490.00	47
48	315400.00	16320.00	335600.00	92800.00	830.00	79490.00	48



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
49	251400.00	21540.00	357800.00	28840.00	9808.00	75920.00	49

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TSGW 20800 TBCR 9.7 AFT FLIGHT DATE 08/30/77

EVENT	69170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-7520.00	116700.00	-9384.00	96220.00	2552.00	106700.00	2
3	-5408.00	96060.00	-9384.00	80860.00	3912.00	86250.00	3
4	-18900.00	136500.00	-13450.00	125600.00	-8800.00	122600.00	4
5	-6256.00	97740.00	-14350.00	85820.00	1640.00	88520.00	5
6	-1624.00	88900.00	-10290.00	73630.00	8456.00	78980.00	6
7	-10890.00	106600.00	-8936.00	94860.00	280.00	94420.00	7
8	-12580.00	123500.00	-20680.00	113800.00	-2896.00	109400.00	8
9	-2048.00	85950.00	-11640.00	71370.00	9360.00	75360.00	9
10	-12150.00	102800.00	-11650.00	92140.00	-5160.00	89880.00	10
11	3016.00	81740.00	-12090.00	76340.00	12080.00	78080.00	11
12	2168.00	69100.00	-5769.00	62790.00	9820.00	60370.00	12
13	-6256.00	99440.00	1456.00	82660.00	280.00	89880.00	13
14	-17210.00	109500.00	7776.00	115200.00	3000.00	99860.00	14
15	-12160.00	123900.00	552.00	108000.00	-4712.00	113000.00	15
16	-6680.00	125100.00	-808.00	120200.00	-8792.00	107100.00	16
17	-7936.00	113800.00	5520.00	103000.00	280.00	105300.00	17
18	-7520.00	109100.00	6880.00	98020.00	-624.00	98960.00	18
19	-5416.00	131400.00	2352.00	115200.00	-176.00	107600.00	19
20	-1200.00	96060.00	-7128.00	78600.00	736.00	86700.00	20
21	-3304.00	93110.00	3264.00	82660.00	1640.00	84890.00	21
22	-2040.00	90170.00	2360.00	79050.00	7096.00	81260.00	22
23	912.00	84690.00	-8032.00	75890.00	6184.00	76710.00	23
24	-3304.00	93960.00	-5776.00	79950.00	3008.00	87150.00	24
25	64.00	85540.00	-10730.00	72270.00	7088.00	79440.00	25
26	-5840.00	94800.00	-12100.00	79950.00	2552.00	87610.00	26
27	8488.00	113300.00	-8480.00	86270.00	20700.00	106700.00	27
28	3432.00	77940.00	-13900.00	66400.00	11180.00	69000.00	28
29	3432.00	78790.00	-18860.00	72270.00	11630.00	73990.00	29
30	3440.00	79630.00	-20220.00	73630.00	13450.00	76710.00	30
31	11450.00	71430.00	-22480.00	78600.00	20260.00	78080.00	31
32	16500.00	58140.00	-20220.00	66400.00	21170.00	67180.00	32
33	14390.00	61930.00	-21130.00	69110.00	19800.00	70360.00	33
34	11860.00	61930.00	-20230.00	69120.00	18450.00	69910.00	34
35	6808.00	80470.00	-23390.00	82210.00	16170.00	82170.00	35
36	6384.00	73310.00	-14360.00	83110.00	17990.00	82160.00	36
37	10600.00	59830.00	-21130.00	64600.00	16180.00	64910.00	37
38	913.50	64460.00	-28350.00	73630.00	5272.00	73080.00	38
39	13130.00	65720.00	-11190.00	70920.00	11180.00	69000.00	39
40	3860.00	65720.00	-19320.00	68210.00	12090.00	75350.00	40
41	5960.00	80470.00	-20220.00	84470.00	14350.00	83980.00	41
42	-784.00	79630.00	-8031.00	69570.00	3464.00	73990.00	42
43	2599.00	60250.00	-1248.00	54660.00	9821.00	52200.00	43
44	3856.00	85950.00	-3960.00	75430.00	8448.00	77170.00	44
45	5120.00	81310.00	-14800.00	76340.00	12090.00	76260.00	45
46	13970.00	84270.00	-6680.00	80860.00	20710.00	78520.00	46
47	3432.00	83000.00	-15710.00	76340.00	11630.00	78530.00	47
48	11440.00	80900.00	-9836.00	74080.00	18900.00	75810.00	48

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
49	488.00	72470.00	-22030.00	70020.00	9815.00	72170.00	49



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139

TOW 28800 TCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.30	262.80	1.17	1.20	1.00	2
3	264.80	265.80	262.80	1.06	1.20	.94	3
4	266.50	267.20	262.20	1.26	1.28	.98	4
5	262.80	265.40	262.40	1.17	1.29	.99	5
6	263.40	263.70	262.60	1.01	1.04	.92	6
7	263.10	266.60	262.00	1.11	1.30	.84	7
8	264.70	267.60	261.40	.88	1.35	.74	8
9	265.30	268.80	265.10	1.02	1.03	.93	9
10	266.60	268.40	264.90	1.07	1.21	.92	10
11	264.00	264.10	263.30	1.06	1.11	1.05	11
12	264.10	266.40	262.90	1.07	1.17	.89	12
13	263.80	264.10	263.50	.98	1.02	.97	13
14	266.50	266.60	262.90	1.11	1.20	.93	14
15	263.00	264.60	262.80	.98	1.18	.94	15
16	264.10	264.90	263.30	1.06	1.19	.99	16
17	264.70	266.00	263.90	1.11	1.15	.88	17
18	263.00	267.60	262.20	1.23	1.29	.89	18
19	264.00	271.80	262.80	1.31	1.44	.89	19
20	263.80	264.10	263.70	.99	1.00	.98	20
21	264.00	264.40	263.90	1.05	1.06	.96	21
22	264.20	264.30	263.50	1.00	1.03	.99	22
23	263.50	264.10	263.30	.96	1.00	.95	23
24	264.10	264.60	263.70	1.06	1.10	1.00	24
25	262.80	263.90	262.60	1.00	1.03	.92	25
26	262.90	264.30	262.80	1.04	1.08	1.00	26
27	263.40	264.10	263.30	1.00	1.01	.95	27
28	263.80	264.60	263.70	.91	.94	.89	28
29	265.20	265.60	264.90	.99	1.06	.97	29
30	261.70	264.40	261.30	1.01	1.07	.94	30
31	277.70	278.20	265.10	.90	1.14	.85	31
32	283.40	284.10	283.40	1.02	1.04	1.00	32
33	277.00	286.90	271.10	1.06	1.12	.97	33
34	282.80	286.50	262.20	.91	1.31	.85	34
35	267.90	283.40	255.00	1.41	1.45	.67	35
36	273.00	280.30	265.30	1.41	1.52	.94	36
37	285.30	286.90	281.80	.98	1.06	.96	37
38	273.20	273.60	270.40	.94	.96	.85	38
39	272.70	276.30	272.40	1.00	1.05	.96	39
40	274.90	275.30	273.00	1.03	1.13	.96	40
41	274.50	281.20	258.30	1.40	1.54	1.00	41
42	263.40	264.40	263.30	1.12	1.19	1.03	42
43	264.80	264.90	263.90	1.10	1.11	.92	43
44	263.00	264.10	262.80	1.11	1.23	1.07	44
45	265.70	266.00	262.20	1.23	1.30	1.01	45
46	264.00	266.60	261.60	1.01	1.10	.94	46
47	264.80	266.00	261.40	.99	1.10	.96	47
48	264.00	265.40	261.10	1.05	1.09	1.00	48

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TSGW 22800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
49	263.90	269.80	259.40	1.08	1.11	.94	49

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# FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139

TOW 20800 TACG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	14.04	31.13	-0.39	3.51	3.85	-3.18	2
3	-7.56	-3.22	-31.41	-0.56	4.88	-2.23	3
4	21.46	39.97	2.45	-4.72	3.51	-9.00	4
5	-12.98	.11	-39.25	3.76	6.93	-5.57	5
6	-0.72	-0.55	-1.72	2.05	3.25	-0.78	6
7	-1.22	-0.55	-2.39	.85	10.45	-10.11	7
8	-0.05	1.11	-1.39	-7.50	6.85	-15.51	8
9	-0.39	.11	-0.55	-2.27	-2.06	-3.35	9
10	-0.72	-0.55	-1.22	-3.13	-0.78	-3.43	10
11	-15.15	.61	-26.57	4.75	11.05	1.36	11
12	9.95	26.96	2.45	9.20	14.73	-0.01	12
13	-0.64	.11	-1.22	-3.65	-3.18	-3.86	13
14	-20.65	-7.89	-23.40	1.32	2.91	-4.12	14
15	26.88	27.96	18.62	-4.12	.25	-6.52	15
16	9.28	28.63	3.61	-1.72	1.79	-4.37	16
17	-1.22	-0.72	-1.72	-2.40	.34	-2.83	17
18	-0.55	.61	-0.72	-2.92	-2.57	-4.20	18
19	.86	1.11	-1.06	-1.08	-0.52	-3.52	19
20	-4.39	-1.39	-4.89	-3.09	-2.75	-3.60	20
21	.95	1.61	-1.72	-4.46	-4.20	-6.69	21
22	-1.22	-0.22	-2.22	-1.42	-1.29	-1.72	22
23	.36	1.45	-0.22	-2.53	-2.40	-3.35	23
24	.53	.78	.11	-2.79	-0.78	-2.92	24
25	-1.89	-1.39	-3.39	-2.96	-2.83	-4.20	25
26	-0.05	.61	-0.89	-2.27	-1.98	-2.83	26
27	-1.47	-0.55	-1.72	-3.22	-2.57	-3.35	27
28	-0.39	.11	-0.72	-3.05	-2.83	-4.37	28
29	-0.05	.28	-0.22	-0.78	.68	-2.06	29
30	-2.56	-2.39	-2.89	-1.63	-1.03	-2.83	30
31	3.03	3.61	-4.72	1.32	3.08	-1.29	31
32	1.53	6.28	-0.55	3.08	3.16	2.82	32
33	4.28	27.13	-3.22	-2.45	2.31	-4.29	33
34	-18.15	-8.06	-36.25	1.84	5.14	-7.46	34
35	-0.05	3.95	-2.56	1.15	8.73	-6.09	35
36	-1.72	-1.06	-2.22	4.79	4.88	3.34	36
37	-3.31	-1.56	-3.56	2.82	3.68	2.56	37
38	-1.72	-1.56	-2.22	-1.76	-1.12	-3.09	38
39	-0.64	1.78	-0.89	-1.16	-0.43	-1.29	39
40	1.11	1.45	.11	.12	.42	-0.26	40
41	11.95	46.30	4.45	-0.26	3.68	-9.17	41
42	-15.40	3.78	-29.91	6.08	10.87	3.42	42
43	7.12	27.96	6.62	8.05	10.36	4.62	43
44	-11.14	-9.06	-41.91	5.61	10.36	3.16	44
45	20.88	39.47	-0.55	10.19	13.61	2.56	45
46	-1.06	.95	-3.39	1.19	6.51	.59	46
47	-1.14	1.95	-1.39	9.29	13.36	-0.26	47
48	.28	1.28	-0.55	13.91	16.95	6.59	48



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 139  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 08/30/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
49	-1.80	4.45	-2.56	11.94	20.46	3.68	49

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 140  
TCGW 24300 TCCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
1	289100.00	16130.00	319500.00	266600.00	1542.00	45120.00	1
2	289800.00	20640.00	332400.00	256200.00	-6499.00	58520.00	2
3	275600.00	23220.00	328500.00	245900.00	-3372.00	55390.00	3
4	293600.00	15490.00	309100.00	276900.00	-11410.00	44670.00	4
5	292400.00	18060.00	313000.00	267800.00	-2479.00	50030.00	5
6	281400.00	66450.00	365900.00	205900.00	-691.50	53610.00	6
7	340700.00	38060.00	378800.00	254900.00	-9184.00	62990.00	7
8	276900.00	20640.00	328800.00	252400.00	-5168.00	111700.00	8
9	302700.00	19350.00	323600.00	248500.00	-8744.00	98280.00	9
10	86580.00	7096.00	94960.00	75620.00	649.00	38870.00	10
11	125900.00	6456.00	132400.00	111700.00	-1138.00	62990.00	11
12	120800.00	7744.00	145300.00	101400.00	-4265.00	58070.00	12
13	320100.00	22580.00	346500.00	132400.00	1095.00	33950.00	13
14	288500.00	23220.00	358200.00	253600.00	202.00	56290.00	14
15	245300.00	18700.00	273000.00	196900.00	6455.00	63430.00	15
16	192400.00	25160.00	248500.00	158200.00	648.50	36180.00	16
17	207900.00	16130.00	225300.00	168500.00	-1139.00	31720.00	17
18	189800.00	20000.00	235600.00	144000.00	-245.00	42440.00	18
19	171100.00	19350.00	214900.00	141400.00	-245.00	30820.00	19
20	189100.00	19350.00	226600.00	159500.00	-245.00	35290.00	20
21	182700.00	24510.00	214900.00	154300.00	-1139.00	31720.00	21
22	248500.00	24510.00	324900.00	146600.00	-10970.00	37080.00	22
23	289800.00	16770.00	320700.00	264000.00	-5606.00	52270.00	23
24	294900.00	21930.00	319500.00	257500.00	-3819.00	58520.00	24
25	251700.00	23860.00	328500.00	226600.00	-3375.00	62550.00	25
26	223000.00	18060.00	288500.00	200800.00	-696.00	75940.00	26
27	206600.00	16130.00	247200.00	176200.00	7344.00	76830.00	27
28	187200.00	13540.00	207200.00	163300.00	6896.00	74610.00	28
29	175000.00	10320.00	199500.00	155600.00	3320.00	77290.00	29
30	175000.00	9032.00	194300.00	162000.00	6000.00	71920.00	30
31	320400.00	22580.00	358200.00	113000.00	7784.00	87110.00	31
32	326500.00	14830.00	341400.00	280800.00	-6946.00	38420.00	32
33	309800.00	14830.00	344000.00	289800.00	-5159.00	37530.00	33
34	323600.00	16780.00	359400.00	294900.00	-5606.00	38870.00	34
35	320400.00	18700.00	359400.00	298800.00	-12310.00	38420.00	35
36	320100.00	21290.00	345900.00	293600.00	-9626.00	39310.00	36
37	321700.00	19990.00	362000.00	304000.00	1543.00	37970.00	37
38	325600.00	23860.00	377500.00	261400.00	5116.00	52270.00	38
39	294300.00	38060.00	322400.00	47240.00	-2936.00	86220.00	39
40	223300.00	38060.00	278200.00	42080.00	1984.00	88450.00	40
41	220400.00	29670.00	275600.00	31760.00	4216.00	84420.00	41
42	12400.00	15480.00	144000.00	-21140.00	-2040.00	74600.00	42
43	294900.00	17420.00	324900.00	222700.00	201.50	44670.00	43
44	148500.00	26450.00	262700.00	94960.00	3776.00	44670.00	44
45	92380.00	9024.00	102700.00	71740.00	14040.00	93370.00	45
46	102700.00	7744.00	116900.00	71740.00	13140.00	92470.00	46

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 140  
TSGW 24300 TSCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41380SDY	41880ALT	EVENT
1	5446.00	46450.00	-695.50	51290.00	2922.00	54640.00	1
2	-2752.00	56470.00	-4299.00	67490.00	-5391.00	55210.00	2
3	1348.00	50550.00	-5197.00	63890.00	-1044.00	61250.00	3
4	-19.00	46450.00	-16900.00	54900.00	-2907.00	55960.00	4
5	-2663.00	52830.00	-245.50	57140.00	-1048.00	64780.00	5
6	-5484.00	51920.00	-10600.00	63900.00	-16030.00	65650.00	6
7	2714.00	59210.00	-14650.00	74250.00	-2816.00	70060.00	7
8	5432.00	109300.00	-14200.00	130500.00	-608.00	126000.00	8
9	-10500.00	101600.00	-13700.00	112500.00	-19110.00	117200.00	9
10	3625.00	37350.00	-3395.00	43190.00	-3247.00	41420.00	10
11	-5030.00	63310.00	-3400.00	70180.00	-8979.00	68300.00	11
12	892.00	59210.00	-9697.00	62990.00	-7219.00	66540.00	12
13	4080.00	35980.00	-1595.00	47690.00	-3247.00	52880.00	13
14	10450.00	56010.00	-7000.00	71990.00	264.00	74020.00	14
15	5443.00	62850.00	5602.00	71090.00	1152.00	76670.00	15
16	892.00	39170.00	-6095.00	48590.00	-1925.00	50670.00	16
17	4080.00	35980.00	2304.00	45890.00	3363.00	48910.00	17
18	891.50	47360.00	-2495.00	54890.00	-1926.00	58600.00	18
19	2634.00	34160.00	-2046.00	45440.00	6447.00	49350.00	19
20	436.50	37800.00	-4295.00	47690.00	-603.50	51110.00	20
21	5446.00	22790.00	-695.50	44990.00	2041.00	46710.00	21
22	9545.00	41440.00	-245.50	52640.00	7328.00	54640.00	22
23	-5484.00	52830.00	-12390.00	61190.00	-15590.00	62570.00	23
24	-9584.00	57840.00	-6104.00	71990.00	-22200.00	69180.00	24
25	-2752.00	61030.00	-6104.00	75590.00	-13390.00	71830.00	25
26	-6402.00	71050.00	-6552.00	85930.00	-16910.00	80640.00	26
27	-3208.00	76060.00	5592.00	90890.00	-13390.00	92980.00	27
28	-9136.00	76510.00	5144.00	90440.00	-16910.00	93860.00	28
29	-13690.00	75610.00	-704.00	94480.00	-26170.00	92540.00	29
30	-5944.00	73320.00	1992.00	88180.00	-16040.00	90330.00	30
31	-2304.00	86990.00	2896.00	102600.00	-8104.00	103500.00	31
32	2258.00	40530.00	-11940.00	48140.00	-3247.00	52880.00	32
33	-19.00	38260.00	-15090.00	46790.00	-4569.00	50670.00	33
34	7723.00	42360.00	-17340.00	47240.00	718.50	53320.00	34
35	6813.00	43270.00	-18690.00	45890.00	2922.00	53760.00	35
36	2258.00	42360.00	-15090.00	46790.00	3363.00	52430.00	36
37	5446.00	40080.00	-3845.00	43640.00	718.50	45380.00	37
38	436.50	56020.00	2454.00	62540.00	-7219.00	67420.00	38
39	9080.00	83800.00	-13750.00	99430.00	4680.00	94300.00	39
40	4992.00	87450.00	-12850.00	102100.00	-1048.00	100000.00	40
41	12270.00	81520.00	-6552.00	96730.00	-2808.00	100000.00	41
42	4536.00	75150.00	-3856.00	85940.00	-3256.00	94300.00	42
43	5902.00	43270.00	-1145.00	53540.00	-3688.00	54200.00	43
44	-19.00	48280.00	-695.00	53090.00	-8096.00	60370.00	44
45	-12330.00	87900.00	-256.00	101200.00	-23520.00	90770.00	45
46	-2760.00	82890.00	1992.00	98980.00	-10750.00	85040.00	46



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 140

TBGM 24300 TBGR 4.4 FWD FLIGHT DATE 08/31/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	315500.00	11600.00	324800.00	296100.00	1634.00	31970.00	1
2	312900.00	18040.00	343800.00	265200.00	4298.00	38190.00	2
3	305800.00	22540.00	341200.00	270400.00	4743.00	43960.00	3
4	316800.00	10310.00	327100.00	301300.00	7851.00	33750.00	4
5	316800.00	12890.00	320900.00	298700.00	2078.00	40410.00	5
6	329300.00	63780.00	413400.00	267800.00	-1475.00	33300.00	6
7	299400.00	24150.00	324800.00	253600.00	11850.00	72380.00	7
8	294200.00	19980.00	342500.00	251100.00	9176.00	90140.00	8
9	327100.00	18030.00	345100.00	251100.00	7848.00	94140.00	9
10	106700.00	12880.00	119600.00	83540.00	2522.00	21310.00	10
11	111200.00	7088.00	118300.00	99010.00	2966.00	30640.00	11
12	43850.00	10310.00	117000.00	78380.00	2966.00	37740.00	12
13	229800.00	41880.00	358000.00	118300.00	29600.00	62610.00	13
14	258800.00	21900.00	309000.00	216300.00	2078.00	33300.00	14
15	226600.00	20620.00	254900.00	204700.00	1190.00	43960.00	15
16	196300.00	17390.00	229500.00	162100.00	7402.00	61720.00	16
17	204700.00	11590.00	216300.00	177600.00	8739.00	57730.00	17
18	222700.00	36080.00	258800.00	151800.00	4298.00	60390.00	18
19	193700.00	16110.00	216300.00	150500.00	8734.00	62160.00	19
20	190500.00	14170.00	226600.00	162100.00	5182.00	60390.00	20
21	182100.00	17390.00	203400.00	153100.00	3854.00	55510.00	21
22	214500.00	21260.00	318000.00	131200.00	3854.00	62610.00	22
23	300700.00	14820.00	323500.00	273000.00	6519.00	34190.00	23
24	292300.00	12890.00	323200.00	270400.00	5630.00	27980.00	24
25	312300.00	14820.00	327100.00	260100.00	-1919.00	32860.00	25
26	291600.00	12240.00	310300.00	244600.00	6963.00	27530.00	26
27	234300.00	20620.00	284500.00	198200.00	5630.00	29750.00	27
28	208500.00	16750.00	223000.00	178900.00	4298.00	22200.00	28
29	194400.00	11600.00	216300.00	169900.00	1634.00	21310.00	29
30	189800.00	10950.00	203800.00	177600.00	2522.00	18650.00	30
31	191800.00	19330.00	356700.00	123500.00	-3251.00	33300.00	31
32	269100.00	16750.00	303900.00	239500.00	7407.00	31530.00	32
33	256800.00	17390.00	288400.00	224000.00	4298.00	31970.00	33
34	240100.00	19970.00	280700.00	204700.00	2078.00	47510.00	34
35	211800.00	19980.00	247200.00	185300.00	4742.00	48400.00	35
36	213700.00	25780.00	274200.00	166000.00	4742.00	51950.00	36
37	184000.00	18040.00	203500.00	151800.00	3855.00	43960.00	37
38	249100.00	23840.00	298700.00	135100.00	8235.00	47510.00	38
39	316800.00	27060.00	408200.00	169900.00	4288.00	93250.00	39
40	390900.00	22550.00	424000.00	209800.00	8728.00	95910.00	40
41	288400.00	23200.00	377300.00	122200.00	296.00	84810.00	41
42	104800.00	24140.00	387600.00	52630.00	9176.00	83030.00	42
43	301300.00	20620.00	358000.00	256200.00	2967.00	35080.00	43
44	123800.00	29630.00	293600.00	79680.00	6075.00	34640.00	44
45	95140.00	7728.00	104200.00	70660.00	4742.00	29750.00	45
46	88700.00	9016.00	108000.00	62930.00	6962.00	29310.00	46

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 140  
TCGW 24300 TBCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	-4937.00	33210.00	-8535.00	33320.00	-6096.00	33010.00	1
2	-4493.00	36580.00	-3132.00	36920.00	-6096.00	32110.00	2
3	-4958.00	39520.00	-1331.00	44130.00	-7453.00	37990.00	3
4	-4957.00	31950.00	4524.00	31970.00	-11070.00	29850.00	4
5	-1550.00	34470.00	-9886.00	37370.00	9281.00	32110.00	5
6	-10380.00	31530.00	-6734.00	34220.00	-11520.00	32110.00	6
7	-13750.00	72730.00	2271.00	63940.00	-8813.00	64680.00	7
8	-12910.00	90380.00	4064.00	80140.00	-7464.00	77780.00	8
9	-13750.00	91220.00	-1792.00	82400.00	-2480.00	78240.00	9
10	-3231.00	22700.00	-8084.00	16660.00	7472.00	18540.00	10
11	-4913.00	31110.00	-3582.00	22960.00	5211.00	25330.00	11
12	-2811.00	37420.00	-6734.00	29720.00	5663.00	30300.00	12
13	-4594.00	42040.00	6325.00	42780.00	17420.00	39350.00	13
14	-7015.00	33210.00	-7634.00	36920.00	4759.00	32110.00	14
15	-4072.00	49610.00	-10340.00	40520.00	5663.00	42060.00	15
16	-2811.00	58440.00	-4032.00	57640.00	4759.00	52910.00	16
17	-1550.00	56330.00	-2681.00	53580.00	4306.00	42840.00	17
18	-1550.00	56330.00	-5833.00	56730.00	6115.00	50650.00	18
19	-3651.00	57600.00	-10340.00	59440.00	8377.00	54720.00	19
20	-4072.00	55490.00	-5383.00	56280.00	3854.00	50200.00	20
21	-3652.00	54230.00	-9886.00	52680.00	5663.00	50200.00	21
22	-7436.00	61380.00	-10790.00	60790.00	-4287.00	58340.00	22
23	-4117.00	31950.00	-4932.00	29720.00	2437.00	27140.00	23
24	-4913.00	28590.00	-8535.00	26120.00	6115.00	27140.00	24
25	-4958.00	30270.00	-13940.00	35120.00	-2930.00	32560.00	25
26	-1549.00	26910.00	-5833.00	24320.00	2498.00	24420.00	26
27	1394.00	29850.00	-4932.00	31520.00	10190.00	29400.00	27
28	-1129.00	10760.00	-5833.00	26120.00	5663.00	26680.00	28
29	-1470.00	22280.00	-6283.00	22060.00	14260.00	22610.00	29
30	-288.00	20600.00	-4933.00	18910.00	9281.00	20350.00	30
31	-8276.00	34470.00	-13040.00	34220.00	3854.00	31210.00	31
32	-8276.00	32790.00	-7634.00	31520.00	4759.00	30300.00	32
33	-4913.00	31950.00	-4283.00	31070.00	3402.00	30750.00	33
34	-4493.00	45820.00	-7184.00	40070.00	4759.00	38440.00	34
35	-3652.00	50030.00	-8985.00	39170.00	7472.00	41160.00	35
36	-4072.00	51290.00	-7184.00	41880.00	7020.00	44320.00	36
37	-4913.00	43720.00	-5383.00	39170.00	9734.00	37080.00	37
38	-3231.00	47090.00	-4482.00	42780.00	11090.00	39350.00	38
39	3912.00	95430.00	-13050.00	90060.00	16970.00	87740.00	39
40	9376.00	97540.00	-11690.00	93210.00	21940.00	90900.00	40
41	-5760.00	41650.00	-16640.00	81950.00	8368.00	85470.00	41
42	4744.00	86180.00	-8992.00	77900.00	10620.00	83220.00	42
43	-11640.00	36160.00	-14390.00	32870.00	-4739.00	36180.00	43
44	-10380.00	33210.00	-1331.00	28820.00	10640.00	32560.00	44
45	-5333.00	30490.00	-7184.00	21160.00	11990.00	23070.00	45
46	-6594.00	31950.00	-7634.00	24320.00	11090.00	26680.00	46



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 140  
TGW 24300 TACG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	264.30	264.50	263.30	1.00	1.02	.98	1
2	263.50	265.40	263.10	1.01	1.05	.96	2
3	264.60	265.30	263.50	1.02	1.05	.96	3
4	263.80	263.90	263.70	1.00	1.02	.99	4
5	264.00	264.60	263.70	.98	1.01	.97	5
6	264.80	265.40	264.10	1.01	1.04	.96	6
7	264.30	264.90	263.10	1.00	1.04	.97	7
8	264.90	265.30	263.50	1.02	1.05	.95	8
9	264.50	265.60	263.50	1.03	1.05	.94	9
10	264.30	265.10	264.10	1.00	1.02	.98	10
11	263.80	264.60	263.70	1.00	1.02	.97	11
12	263.70	264.50	263.50	.99	1.05	.95	12
13	264.70	266.80	263.30	.96	1.04	.91	13
14	265.70	266.80	263.30	.96	1.08	.88	14
15	266.80	267.20	264.30	.99	1.03	.94	15
16	264.10	266.40	263.50	.97	1.04	.94	16
17	264.20	264.60	263.90	1.00	1.01	.98	17
18	264.30	266.60	263.90	.98	1.05	.91	18
19	265.30	266.20	264.30	.99	1.03	.97	19
20	264.00	264.90	263.50	1.01	1.02	.96	20
21	264.80	265.60	264.60	1.02	1.03	.98	21
22	264.70	265.80	261.40	.94	1.02	.93	22
23	263.20	265.50	263.90	.98	1.03	.95	23
24	264.20	264.50	263.50	.96	1.04	.94	24
25	264.90	265.30	263.30	1.01	1.05	.96	25
26	264.80	265.80	264.10	.97	1.03	.96	26
27	264.70	265.60	264.30	1.01	1.02	.97	27
28	265.40	265.60	264.40	.98	1.02	.97	28
29	264.00	265.80	263.70	.96	1.04	.94	29
30	264.70	265.10	263.90	.99	1.02	.96	30
31	261.60	266.20	259.90	1.04	1.11	.97	31
32	264.60	265.30	263.10	1.01	1.03	.95	32
33	264.80	265.30	263.70	1.00	1.02	.96	33
34	264.20	265.30	263.30	1.00	1.03	.96	34
35	265.20	265.40	263.90	.99	1.03	.97	35
36	264.30	265.30	263.10	.98	1.03	.94	36
37	264.70	264.90	264.10	.99	1.01	.96	37
38	264.50	264.90	263.30	.98	1.03	.96	38
39	262.80	265.30	261.30	1.02	1.11	.97	39
40	263.30	264.90	262.40	1.02	1.06	.91	40
41	264.20	266.40	261.30	.95	1.11	.90	41
42	261.40	263.10	258.60	1.07	1.15	.95	42
43	263.20	265.40	260.90	1.10	1.18	.92	43
44	266.70	269.80	264.30	1.09	1.55	.79	44
45	264.70	264.90	263.90	.98	1.04	.94	45
46	264.70	264.90	263.70	1.00	1.04	.96	46



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 140

TGW 24300 TBCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	-.07	.58	-.56	5.02	5.96	4.50	1
2	-1.94	4.00	-4.30	.18	6.56	-.89	2
3	.91	3.03	-3.98	4.42	7.16	2.36	3
4	-1.45	-.72	-1.86	5.79	5.96	5.70	4
5	-.88	1.40	-1.70	5.74	6.56	3.48	5
6	1.23	1.40	.58	3.26	4.07	2.19	6
7	.58	1.23	.09	5.96	6.90	5.36	7
8	1.07	4.49	-1.37	5.87	8.44	2.45	8
9	.99	3.19	-3.49	7.16	8.87	1.16	9
10	-.07	.09	-.23	5.23	5.53	4.67	10
11	-1.61	-.72	-2.35	5.53	6.04	4.85	11
12	1.64	2.05	-1.21	3.95	6.22	3.65	12
13	1.15	8.40	-1.21	8.66	12.81	5.19	13
14	-.48	1.23	-5.77	8.53	11.01	7.50	14
15	-1.94	-1.05	-4.30	10.58	11.70	8.19	15
16	-4.38	1.40	-5.12	5.83	8.19	2.10	16
17	-.39	.42	-3.81	5.15	5.53	4.59	17
18	-3.65	-.23	-4.95	3.48	8.61	.56	18
19	-3.16	.75	-4.14	5.15	7.07	4.85	19
20	-1.94	-1.70	-5.12	5.44	6.56	4.67	20
21	-1.53	1.23	-3.49	6.94	7.50	5.96	21
22	1.80	10.52	1.23	3.82	6.56	.56	22
23	2.29	3.84	1.23	5.87	6.47	5.19	23
24	1.64	2.37	.75	3.95	6.47	3.39	24
25	1.64	4.00	-.07	6.56	7.07	3.56	25
26	3.68	4.49	3.35	4.89	6.04	3.99	26
27	3.35	4.98	1.07	4.67	5.96	3.39	27
28	1.48	2.21	.42	4.38	6.04	3.48	28
29	1.56	2.86	1.07	4.97	6.64	3.73	29
30	3.19	3.35	2.21	4.33	5.02	3.48	30
31	-1.70	.26	-12.44	2.79	8.10	2.02	31
32	-1.37	-.23	-2.35	8.06	8.61	4.07	32
33	-.48	.09	-1.70	6.00	6.90	5.36	33
34	-.23	.75	-2.02	8.44	9.21	5.44	34
35	.99	1.23	.09	6.34	6.99	5.96	35
36	.75	1.23	-.72	9.17	10.41	5.79	36
37	.01	1.07	-.72	6.34	6.81	5.70	37
38	-.96	.42	-1.70	-1.36	4.16	-3.89	38
39	-1.78	8.56	-3.49	10.75	11.18	3.30	39
40	-2.02	1.72	-3.81	4.76	8.10	1.25	40
41	-1.70	1.40	-4.63	5.79	16.15	5.19	41
42	.50	2.21	-2.02	10.45	21.97	10.07	42
43	-.31	.09	-2.02	3.56	4.16	2.88	43
44	.34	.91	-1.05	3.48	4.07	2.70	44
45	-2.35	-.23	-2.51	4.67	6.90	4.42	45
46	-.72	1.72	-.88	5.79	6.22	4.33	46

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TSGW 24300 TSCR 4.4 FWD FLIGHT DATE 08/31/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	274900.00	13540.00	301400.00	248500.00	-4720.00	83540.00	2
3	244600.00	32900.00	287200.00	7242.00	7336.00	92920.00	3
4	293000.00	13540.00	310400.00	262700.00	-5168.00	90240.00	4
5	284000.00	10970.00	294900.00	261400.00	-7848.00	88460.00	5
6	271700.00	9032.00	284600.00	262700.00	-5168.00	85780.00	6
7	258200.00	9672.00	270400.00	248500.00	-4272.00	83090.00	7
8	245900.00	10330.00	244600.00	234300.00	-8296.00	90680.00	8
9	273600.00	13550.00	288500.00	245900.00	-691.50	54500.00	9
10	244600.00	14830.00	241400.00	229100.00	-1585.00	58070.00	10
11	214200.00	18060.00	236900.00	178800.00	-256.00	72820.00	11
12	168500.00	12900.00	193000.00	155600.00	192.00	67010.00	12
13	171100.00	14190.00	212400.00	140100.00	1536.00	67460.00	13
14	96900.00	13540.00	122100.00	80770.00	6903.00	56730.00	14
15	47880.00	9677.00	40140.00	34340.00	3776.00	46460.00	15
16	-10180.00	10970.00	25300.00	-21140.00	6010.00	45120.00	16
17	137500.00	16770.00	278200.00	-15980.00	-3821.00	66560.00	17
18	175600.00	12260.00	198200.00	158200.00	202.00	57180.00	18
19	209100.00	10970.00	220100.00	180100.00	-3372.00	61650.00	19
20	213000.00	12260.00	226600.00	186600.00	-2480.00	67900.00	20
21	218200.00	14830.00	257500.00	200800.00	-4272.00	75060.00	21
22	214300.00	20000.00	244000.00	175000.00	-4720.00	77280.00	22
23	179500.00	10970.00	191700.00	164600.00	202.00	54500.00	23
24	200800.00	12900.00	213700.00	171100.00	202.00	55390.00	24
25	223300.00	27740.00	257500.00	154300.00	3776.00	51820.00	25
26	229100.00	14190.00	248500.00	160800.00	-2040.00	69240.00	26
27	239500.00	18060.00	257500.00	125900.00	-2040.00	71030.00	27
28	144000.00	16130.00	189200.00	147900.00	5116.00	65670.00	28
29	184000.00	23220.00	208500.00	137500.00	1095.00	61650.00	29
30	191700.00	25810.00	217500.00	149200.00	23430.00	75050.00	30
31	195000.00	8392.00	203300.00	177500.00	-2479.00	55390.00	31
32	202700.00	13540.00	221400.00	169800.00	649.00	64780.00	32
33	228500.00	26450.00	260100.00	102700.00	-4272.00	69700.00	33
34	182700.00	23220.00	229100.00	146600.00	-3825.00	63890.00	34
35	204000.00	26450.00	302700.00	94960.00	-4272.00	69700.00	35
36	204600.00	20000.00	247800.00	135000.00	-2480.00	67900.00	36
37	247800.00	25160.00	311700.00	158200.00	-2032.00	59410.00	37
38	193000.00	33540.00	251100.00	104000.00	-1143.00	65670.00	38
39	-41780.00	6451.00	-31460.00	-54690.00	6010.00	37080.00	39
40	-37910.00	7741.00	-26300.00	-57910.00	11370.00	54050.00	40
41	-33400.00	13550.00	-6950.00	-57910.00	5559.00	62540.00	41
42	-12760.00	10970.00	51110.00	-57910.00	-691.50	61650.00	42
43	-41140.00	14840.00	-10820.00	-57910.00	-248.00	70140.00	43
44	91740.00	10970.00	118200.00	-44360.00	-1139.00	62090.00	44
45	-34690.00	9676.00	-19850.00	-44360.00	7797.00	49590.00	45
46	-11470.00	12260.00	44660.00	-57910.00	5116.00	55840.00	46
47	-13400.00	14190.00	35630.00	-57910.00	5112.00	62980.00	47
48	-15340.00	17420.00	29170.00	-57910.00	5115.00	64770.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGW 24300 TCR 4.4 FWD FLIGHT DATE 08/31/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
49	-27590.00	18060.00	31760.00	-57910.00	-2926.00	55840.00	49
50	193700.00	9680.00	203300.00	172400.00	-8744.00	87560.00	50
51	236900.00	15490.00	256200.00	218800.00	-7400.00	88900.00	51
52	229100.00	21940.00	287200.00	185300.00	-8296.00	93370.00	52
53	218800.00	18060.00	236900.00	194300.00	-4272.00	82190.00	53
54	267200.00	21290.00	289800.00	227900.00	2432.00	79070.00	54
55	256200.00	24510.00	329800.00	227900.00	-2040.00	88010.00	55
56	281400.00	25150.00	345200.00	256200.00	4216.00	86220.00	56
57	231100.00	32900.00	340700.00	48530.00	-12310.00	64330.00	57



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGW 24300 TCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	9080.00	85620.00	-16900.00	99880.00	272.00	104900.00	2
3	11360.00	94270.00	1096.00	107100.00	704.00	107100.00	3
4	11810.00	89260.00	-17800.00	108000.00	2032.00	111900.00	4
5	7720.00	87900.00	-16900.00	104400.00	-1056.00	106200.00	5
6	11360.00	85170.00	-14660.00	101200.00	2912.00	104000.00	6
7	11820.00	82890.00	-14660.00	97630.00	2032.00	101300.00	7
8	6352.00	91090.00	-19600.00	106200.00	-4136.00	109300.00	8
9	10000.00	50100.00	-10150.00	65240.00	3363.00	62130.00	9
10	9545.00	52370.00	-9701.00	68400.00	2918.00	66090.00	10
11	12270.00	68770.00	-11500.00	84580.00	-168.00	82390.00	11
12	9999.00	61940.00	-10150.00	78740.00	1152.00	74910.00	12
13	10000.00	63760.00	-7456.00	78740.00	3792.00	75790.00	13
14	7724.00	56930.00	-4299.00	67490.00	1152.00	66980.00	14
15	12280.00	45090.00	-9244.00	55340.00	2922.00	54640.00	15
16	11370.00	43270.00	-8794.00	53990.00	5125.00	51550.00	16
17	9543.00	61480.00	-14650.00	79640.00	-608.00	78430.00	17
18	10910.00	52830.00	-9245.00	67940.00	3359.00	65650.00	18
19	10450.00	57840.00	-10600.00	72890.00	2472.00	71820.00	19
20	10910.00	62850.00	-10150.00	80540.00	272.00	78430.00	20
21	9996.00	70130.00	-13300.00	87290.00	-2376.00	86360.00	21
22	10450.00	72410.00	-15550.00	89540.00	-1928.00	88570.00	22
23	9545.00	51460.00	-9251.00	65250.00	3363.00	61250.00	23
24	7268.00	51920.00	-9249.00	66140.00	1600.00	59490.00	24
25	6357.00	51010.00	-4751.00	62550.00	2482.00	58600.00	25
26	10450.00	66940.00	-15550.00	81440.00	2032.00	81070.00	26
27	9994.00	66490.00	-11050.00	85030.00	2472.00	80630.00	27
28	20020.00	61940.00	-2952.00	78740.00	16580.00	80640.00	28
29	9997.00	58290.00	-4752.00	72430.00	2472.00	74470.00	29
30	-24.00	85620.00	19990.00	87290.00	-8536.00	96940.00	30
31	8635.00	51460.00	-11940.00	65240.00	278.00	64330.00	31
32	7720.00	60570.00	-6552.00	75140.00	6005.00	70940.00	32
33	12730.00	69220.00	-17350.00	83240.00	5560.00	87240.00	33
34	8630.00	57830.00	-11950.00	75140.00	-176.00	72700.00	34
35	9083.00	66490.00	-13300.00	84580.00	-1936.00	82400.00	35
36	8179.00	65580.00	-11950.00	82340.00	1592.00	78870.00	36
37	9084.00	56470.00	-13750.00	71550.00	272.00	70500.00	37
38	4356.00	65580.00	-7448.00	76940.00	-616.00	73140.00	38
39	4991.00	38710.00	-6545.00	44540.00	2922.00	43180.00	39
40	9090.00	54650.00	654.00	64340.00	7766.00	60360.00	40
41	14100.00	57840.00	-6104.00	75590.00	9526.00	72700.00	41
42	11820.00	57380.00	-15090.00	72890.00	-1048.00	76230.00	42
43	14380.00	48310.00	-15100.00	83690.00	6440.00	91660.00	43
44	9086.00	59200.00	-9697.00	73790.00	2032.00	69620.00	44
45	4357.00	50100.00	-495.50	54890.00	1159.00	55520.00	45
46	8634.00	56020.00	-5651.00	65250.00	5121.00	63890.00	46
47	-4574.00	60120.00	-1600.00	70190.00	-13380.00	67420.00	47
48	11360.00	63300.00	-5200.00	78290.00	-2808.00	78870.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGW 24300 TCR 4.4 FWD FLIGHT DATE 08/31/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
49	6357.00	53740.00	-15100.00	66600.00	-7217.00	69180.00	49
50	4984.00	90630.00	-17350.00	102100.00	-2816.00	108000.00	50
51	7264.00	88350.00	-13750.00	103900.00	1152.00	107500.00	51
52	3160.00	91540.00	-15550.00	109300.00	-2816.00	110600.00	52
53	10450.00	78780.00	-10150.00	97640.00	3800.00	96060.00	53
54	7256.00	80150.00	-3408.00	93580.00	7320.00	93420.00	54
55	8168.00	85620.00	-7904.00	103500.00	6432.00	101300.00	55
56	4352.00	86530.00	-704.00	101700.00	7768.00	100900.00	56
57	6354.00	62850.00	-11950.00	76040.00	2472.00	77110.00	57



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TCGW 24300 TSCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	366400.00	9664.00	391500.00	327100.00	2072.00	75930.00	2
3	379300.00	30280.00	426300.00	123500.00	-2368.00	80370.00	3
4	367000.00	12890.00	390200.00	346400.00	8736.00	84370.00	4
5	358600.00	10960.00	377300.00	346400.00	6072.00	85260.00	5
6	363800.00	9664.00	377300.00	352800.00	7400.00	76820.00	6
7	365700.00	9024.00	376000.00	355400.00	4736.00	74160.00	7
8	338000.00	12250.00	352800.00	325800.00	6952.00	88810.00	8
9	338000.00	8376.00	354100.00	327100.00	6074.00	40850.00	9
10	335400.00	9664.00	366400.00	319300.00	5186.00	39080.00	10
11	318000.00	16750.00	345100.00	294900.00	3848.00	74150.00	11
12	292300.00	12890.00	309000.00	267800.00	1634.00	55950.00	12
13	293600.00	14180.00	327100.00	253600.00	1190.00	51950.00	13
14	200200.00	12250.00	217600.00	182800.00	1190.00	50180.00	14
15	142200.00	8376.00	154400.00	131200.00	7407.00	46620.00	15
16	91920.00	7088.00	100300.00	64220.00	2522.00	31970.00	16
17	201400.00	16110.00	364400.00	68080.00	1630.00	63940.00	17
18	287800.00	5800.00	302600.00	282000.00	1190.00	36860.00	18
19	298700.00	9016.00	307700.00	279400.00	746.00	47070.00	19
20	284600.00	9016.00	302600.00	271700.00	6962.00	66610.00	20
21	326400.00	19980.00	350300.00	297400.00	2520.00	95910.00	21
22	332200.00	20620.00	343200.00	243300.00	-3256.00	98140.00	22
23	309000.00	12890.00	327100.00	292300.00	3410.00	39080.00	23
24	334200.00	13530.00	355400.00	312900.00	2078.00	40410.00	24
25	340600.00	18040.00	388900.00	297400.00	5630.00	39520.00	25
26	318000.00	19330.00	350300.00	262600.00	-2368.00	81260.00	26
27	314800.00	19970.00	343800.00	244600.00	-6808.00	85700.00	27
28	280700.00	20620.00	307700.00	254900.00	1634.00	56840.00	28
29	271700.00	19330.00	306400.00	252300.00	-2807.00	47070.00	29
30	285200.00	26420.00	321900.00	249800.00	8738.00	66610.00	30
31	278100.00	19330.00	301300.00	258800.00	-586.00	58170.00	31
32	282000.00	11590.00	293600.00	258800.00	-1031.00	44400.00	32
33	291600.00	26420.00	323200.00	226600.00	-4584.00	94140.00	33
34	283300.00	25780.00	327400.00	230400.00	746.00	47070.00	34
35	387000.00	36720.00	441700.00	212400.00	-11250.00	86590.00	35
36	329700.00	20620.00	395400.00	288400.00	2522.00	57730.00	36
37	323200.00	21900.00	368300.00	245900.00	746.00	51510.00	37
38	361900.00	43810.00	445600.00	224000.00	-3695.00	42630.00	38
39	56480.00	32210.00	88690.00	20410.00	2966.00	30640.00	39
40	49400.00	30280.00	86110.00	13970.00	4743.00	43960.00	40
41	21700.00	15460.00	64220.00	2372.00	5631.00	43070.00	41
42	40380.00	17400.00	84830.00	8815.00	6518.00	39520.00	42
43	80320.00	27700.00	114500.00	19120.00	2966.00	42180.00	43
44	145000.00	10950.00	206000.00	8815.00	745.50	55950.00	44
45	17190.00	8376.00	33300.00	8815.00	6075.00	37300.00	45
46	37810.00	12240.00	101600.00	7526.00	7407.00	43960.00	46
47	44830.00	14820.00	84830.00	16550.00	6519.00	52840.00	47
48	39740.00	14170.00	75810.00	16550.00	6963.00	47070.00	48



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGW 24300 TCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
49	51980.00	26410.00	115800.00	15260.00	2078.00	44850.00	49
50	254900.00	14180.00	273000.00	230400.00	5592.00	93700.00	50
51	284500.00	16100.00	306400.00	267800.00	4736.00	91920.00	51
52	338000.00	38010.00	376000.00	254900.00	21170.00	145600.00	52
53	240100.00	15460.00	288400.00	244600.00	5624.00	83930.00	53
54	303900.00	19330.00	347400.00	278100.00	14950.00	81700.00	54
55	355400.00	36080.00	391500.00	280700.00	2960.00	120300.00	55
56	348300.00	33500.00	401800.00	310300.00	18060.00	107900.00	56
57	318700.00	32860.00	385100.00	193100.00	152.00	87030.00	57

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141

TGWW 24300 TCCR 4.4 FWD FLIGHT DATE 08/31/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-1136.00	76100.00	-8090.00	69800.00	5207.00	67830.00	2
3	-296.00	81140.00	-12140.00	75650.00	6104.00	72360.00	3
4	-5336.00	87860.00	912.00	78800.00	-224.00	79600.00	4
5	-4496.00	87020.00	-2232.00	77450.00	680.00	76890.00	5
6	-4080.00	78190.00	-2688.00	71600.00	2032.00	68290.00	6
7	-1136.00	75250.00	-4033.00	69340.00	3847.00	66470.00	7
8	-5760.00	91650.00	-888.00	81500.00	680.00	80500.00	8
9	-4072.00	36160.00	471.00	41430.00	1593.00	37990.00	9
10	-6174.00	35730.00	-880.00	39170.00	1141.00	36630.00	10
11	-12900.00	69370.00	-2688.00	75200.00	-8360.00	66940.00	11
12	-10380.00	55920.00	-2231.00	58540.00	-8357.00	54270.00	12
13	-9537.00	50870.00	-5383.00	56280.00	-5191.00	50200.00	13
14	2235.00	47510.00	-6734.00	50430.00	9733.00	44320.00	14
15	-1129.00	42460.00	-2681.00	49980.00	8829.00	43420.00	15
16	-2811.00	33210.00	-9886.00	32870.00	8829.00	28040.00	16
17	-1129.00	57600.00	-5840.00	62140.00	7472.00	52910.00	17
18	-1549.00	36160.00	-5383.00	36470.00	2497.00	35280.00	18
19	-7435.00	47090.00	-5833.00	47730.00	-5191.00	46580.00	19
20	-10800.00	43070.00	2272.00	63040.00	-5196.00	62870.00	20
21	-12490.00	90810.00	-5392.00	95010.00	-8816.00	84580.00	21
22	-10800.00	97540.00	-11700.00	98610.00	-12430.00	90000.00	22
23	-1970.00	39100.00	-4483.00	37370.00	2045.00	35730.00	23
24	-708.50	40360.00	-5833.00	37820.00	688.00	38890.00	24
25	-3231.00	40360.00	-3132.00	36920.00	-1121.00	36180.00	25
26	-1976.00	84500.00	-13940.00	83750.00	-1128.00	81400.00	26
27	-9544.00	89540.00	-12140.00	89150.00	-5200.00	85470.00	27
28	-4492.00	60960.00	471.00	59440.00	-7458.00	60610.00	28
29	-2811.00	44980.00	-9885.00	46380.00	2497.00	44320.00	29
30	-5344.00	76100.00	-429.50	60340.00	-2031.00	64230.00	30
31	-4913.00	53810.00	-5833.00	54030.00	-4287.00	53820.00	31
32	-4913.00	42040.00	-4032.00	46830.00	-2026.00	39800.00	32
33	5176.00	105900.00	-22060.00	93660.00	1136.00	97230.00	33
34	-7856.00	44140.00	-3582.00	48180.00	-6096.00	43870.00	34
35	-12060.00	98800.00	-25200.00	86000.00	-23740.00	95880.00	35
36	-3231.00	57180.00	-880.00	53580.00	-7453.00	52460.00	36
37	-1129.00	49190.00	-4032.00	49530.00	-4287.00	49300.00	37
38	-5333.00	44140.00	-6283.00	40070.00	-12430.00	46580.00	38
39	-7015.00	34890.00	-8985.00	30170.00	2497.00	30750.00	39
40	-5754.00	49610.00	-4933.00	36920.00	3854.00	41160.00	40
41	-5333.00	48350.00	-17090.00	38270.00	3402.00	39800.00	41
42	-2390.00	42040.00	-9435.00	37820.00	8829.00	36180.00	42
43	-4174.00	48350.00	-4482.00	39170.00	5211.00	39800.00	43
44	-1549.00	58860.00	-5833.00	56730.00	2950.00	52910.00	44
45	-2390.00	41200.00	-9885.00	34670.00	12900.00	32110.00	45
46	-1549.00	49610.00	-17090.00	40070.00	9733.00	39800.00	46
47	-5333.00	56760.00	-1781.00	46380.00	4758.00	46580.00	47
48	-2390.00	52130.00	-11240.00	40520.00	7020.00	43420.00	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGGW 24300 TCCR 4.4 FWD FLIGHT DATE 08/31/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
49	4337.00	42040.00	-9886.00	45480.00	10640.00	40700.00	49
50	-2392.00	100100.00	-7640.00	84650.00	680.00	89540.00	50
51	-3240.00	94170.00	464.00	81060.00	-2488.00	84570.00	51
52	-9544.00	131600.00	912.00	123800.00	-17410.00	114000.00	52
53	-3664.00	87020.00	-888.00	77000.00	680.00	80500.00	53
54	968.00	87450.00	5416.00	77000.00	2040.00	80950.00	54
55	-3232.00	116000.00	-6288.00	110300.00	-9264.00	105800.00	55
56	-4176.00	109700.00	11270.00	102700.00	-4744.00	101300.00	56
57	7688.00	89130.00	-8536.00	81050.00	14250.00	80500.00	57



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGW 24300 TCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.60	264.60	1.01	1.06	1.00	2
3	266.60	270.10	261.80	1.05	1.11	.92	3
4	265.20	265.30	264.90	1.05	1.09	1.02	4
5	264.80	265.40	264.60	1.02	1.04	.98	5
6	264.80	265.30	264.60	1.00	1.01	.99	6
7	265.00	265.10	264.90	1.01	1.02	.99	7
8	265.40	265.60	264.90	1.01	1.03	.98	8
9	265.20	265.30	264.90	.99	1.00	.98	9
10	264.80	265.10	264.60	1.02	1.02	1.00	10
11	265.30	265.40	264.40	1.03	1.08	1.02	11
12	265.60	265.80	264.90	1.02	1.06	1.00	12
13	264.70	265.40	263.90	1.01	1.04	1.00	13
14	265.90	266.20	265.80	.99	1.02	.96	14
15	266.00	266.20	265.10	1.01	1.02	.99	15
16	267.10	268.90	266.40	.98	1.01	.92	16
17	262.20	265.40	259.80	1.08	1.15	.97	17
18	265.00	265.30	264.90	.99	1.01	.98	18
19	264.70	265.30	264.30	1.01	1.02	.95	19
20	264.80	265.10	264.40	1.00	1.04	.98	20
21	264.80	265.10	264.60	1.03	1.05	1.00	21
22	264.80	265.80	264.10	1.00	1.07	.92	22
23	264.80	264.90	264.40	1.01	1.02	1.00	23
24	264.80	265.10	264.60	1.03	1.04	1.00	24
25	264.70	265.60	264.10	.93	1.03	.92	25
26	264.80	265.60	263.70	1.02	1.12	.93	26
27	265.30	266.00	263.10	1.05	1.14	.91	27
28	264.80	265.40	264.40	1.04	1.06	1.03	28
29	264.70	264.90	264.30	.98	1.02	.96	29
30	263.70	266.00	263.10	.98	1.07	.91	30
31	264.80	265.10	264.30	1.04	1.04	.99	31
32	264.30	265.10	264.10	.99	1.03	.93	32
33	266.40	267.90	264.40	.97	1.20	.86	33
34	267.60	270.80	264.60	1.03	1.06	.96	34
35	266.50	267.90	261.40	1.06	1.20	.95	35
36	264.60	265.80	263.30	1.06	1.17	.97	36
37	264.60	266.00	264.10	.89	1.12	.83	37
38	266.10	271.80	262.80	1.07	1.28	.91	38
39	274.90	276.90	273.60	.95	1.00	.83	39
40	283.00	284.90	273.20	1.02	1.17	.95	40
41	272.60	285.40	263.90	1.07	1.34	.93	41
42	275.30	291.60	258.30	1.31	1.52	.66	42
43	284.60	289.00	263.10	1.35	1.63	.84	43
44	275.90	278.80	266.20	.95	1.08	.87	44
45	278.80	281.40	278.60	.94	1.05	.91	45
46	277.20	287.20	259.00	1.12	1.26	.77	46
47	271.20	282.50	259.20	1.25	1.32	.86	47
48	273.50	279.40	259.60	1.19	1.42	.94	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TOWW 24300 TACG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
49	271.70	273.60	258.10	1.13	1.51	.87	49
50	264.70	265.60	264.40	.99	1.02	.97	50
51	264.10	265.10	263.90	.96	.99	.95	51
52	265.00	265.80	263.90	1.07	1.12	.87	52
53	264.80	265.40	264.60	1.05	1.09	1.01	53
54	264.80	265.40	264.10	1.05	1.09	.94	54
55	265.30	265.60	263.50	1.07	1.20	.90	55
56	264.70	265.30	263.70	.96	1.08	.87	56
57	264.60	265.60	260.90	1.00	1.09	.97	57

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141  
TGW 24300 TBCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-2.84	2.05	-9.68	-6.37	-3.46	-8.85	2
3	-.96	2.70	-10.33	7.59	16.32	-.46	3
4	4.00	5.79	3.03	1.34	3.30	.91	4
5	.42	.91	-.23	.31	.56	-1.83	5
6	-.15	.75	-.88	-.51	-.29	-1.23	6
7	-2.19	-2.02	-2.84	.14	.22	-.89	7
8	.18	1.56	-1.05	-4.15	-2.43	-4.92	8
9	.75	1.23	-.23	2.66	3.13	1.93	9
10	-.48	.58	-1.53	4.55	4.76	4.16	10
11	1.48	1.89	.75	6.99	7.33	5.96	11
12	-1.61	-.56	-2.02	5.57	5.79	4.16	12
13	.26	4.00	-1.53	3.35	4.59	2.62	13
14	.75	2.54	.58	3.00	4.93	2.88	14
15	1.72	2.21	.91	4.03	4.93	3.90	15
16	-.31	.75	-1.53	4.25	5.02	3.56	16
17	1.15	1.56	-1.21	4.50	5.36	.31	17
18	2.86	3.19	.26	3.99	4.25	3.22	18
19	.26	.42	-2.35	1.34	2.53	.65	19
20	1.80	2.05	-2.51	2.02	2.53	.74	20
21	-1.29	-1.05	-2.51	-.21	1.25	-.81	21
22	-.39	1.07	-2.67	-.89	1.93	-2.52	22
23	-1.05	-.39	-1.37	5.49	5.87	5.19	23
24	-.39	.09	-.72	8.10	8.36	5.70	24
25	-.23	.42	-2.67	3.82	8.10	3.48	25
26	-1.21	2.21	-15.21	9.85	10.33	.22	26
27	4.17	17.52	-5.60	4.89	11.10	-1.83	27
28	-1.13	-.56	-2.84	3.65	4.33	2.96	28
29	-2.35	-1.70	-2.84	2.40	3.30	1.51	29
30	-1.45	-.56	-2.51	2.40	3.13	1.76	30
31	-3.08	-1.86	-3.32	3.73	4.16	3.05	31
32	1.89	2.37	.26	1.81	2.70	-.63	32
33	-.80	.58	-2.02	-1.32	5.27	-7.48	33
34	-.56	-.07	-1.21	2.28	3.05	2.02	34
35	10.52	30.54	.75	4.46	10.50	1.76	35
36	-11.87	-.88	-27.92	6.56	11.18	.31	36
37	-1.05	.75	-3.81	-4.96	6.73	-7.66	37
38	-1.78	-.56	-2.02	4.20	4.50	3.22	38
39	-1.86	-1.37	-3.32	5.62	8.27	3.48	39
40	10.68	32.82	-1.05	-.93	6.56	-7.48	40
41	-11.71	.58	-39.15	-1.11	8.78	-6.46	41
42	3.27	3.84	.26	3.48	14.44	-3.63	42
43	3.11	4.17	.75	5.49	11.70	5.02	43
44	3.51	4.00	1.07	4.42	8.01	2.36	44
45	.83	2.05	.42	1.76	2.45	1.42	45
46	-10.82	2.37	-18.47	4.50	12.12	-2.86	46
47	5.06	30.54	3.68	1.34	7.24	-2.52	47
48	4.33	5.96	-1.53	2.96	8.01	-3.12	48



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 141

TSGW 24300 TBCG 4.4 FWD FLIGHT DATE 08/31/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
49	1.56	2.86	-2.19	4.72	7.84	2.45	49
50	.34	.91	-1.70	-3.20	-2.86	-3.89	50
51	-.07	1.23	-.23	-4.57	-4.32	-4.83	51
52	1.89	3.19	-1.37	-2.13	-1.83	-6.37	52
53	-.15	.09	-1.05	-2.52	-1.83	-3.29	53
54	.01	1.40	-1.86	-2.35	-1.49	-4.92	54
55	2.54	22.08	-3.98	3.95	5.96	-2.60	55
56	-.56	.42	-1.86	-5.64	-3.72	-7.48	56
57	-6.66	8.24	-9.19	-.25	8.53	-1.32	57

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TGW 24300 TCG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	244700.00	13550.00	290000.00	230600.00	-10500.00	92960.00	2
3	174500.00	12260.00	195700.00	159600.00	-7816.00	79540.00	3
4	143500.00	14190.00	188000.00	149300.00	-5136.00	84910.00	4
5	193200.00	18060.00	217700.00	173800.00	-4240.00	84910.00	5
6	144500.00	10330.00	147400.00	139000.00	-6920.00	82230.00	6
7	177000.00	10970.00	189300.00	149300.00	-8704.00	84020.00	7
8	148600.00	10330.00	141900.00	155700.00	-6920.00	83130.00	8
9	181600.00	11620.00	216400.00	169900.00	-6024.00	82230.00	9
10	222200.00	12260.00	242200.00	204800.00	-4240.00	83120.00	10
11	233800.00	14840.00	244100.00	219000.00	-2448.00	84020.00	11
12	278300.00	23230.00	319600.00	255100.00	2024.00	81340.00	12
13	297700.00	24520.00	326400.00	261600.00	5144.00	82680.00	13
14	286700.00	29040.00	340300.00	247400.00	3808.00	84910.00	14
15	282200.00	24520.00	322500.00	255100.00	6488.00	75080.00	15
16	151900.00	9032.00	172500.00	142800.00	-2896.00	79100.00	16
17	177700.00	12900.00	206100.00	164800.00	-2896.00	77310.00	17
18	190600.00	14200.00	212500.00	173800.00	-2000.00	79100.00	18
19	219600.00	13550.00	241600.00	199600.00	-3352.00	87590.00	19
20	234400.00	13550.00	256400.00	198300.00	-3792.00	88030.00	20
21	159600.00	10320.00	173800.00	142800.00	-6472.00	83580.00	21
22	143500.00	9040.00	173800.00	151900.00	-5584.00	85360.00	22
23	188000.00	10330.00	203500.00	172500.00	-5136.00	92060.00	23
24	200900.00	11620.00	216400.00	185400.00	-5136.00	96530.00	24
25	211200.00	12900.00	230600.00	189300.00	-3344.00	99220.00	25
26	215800.00	18710.00	243500.00	190600.00	-6024.00	100100.00	26
27	205400.00	18710.00	262800.00	179000.00	-4240.00	90270.00	27
28	217000.00	18700.00	271900.00	177700.00	-8704.00	92060.00	28
29	257700.00	23220.00	283500.00	193200.00	-1112.00	95190.00	29
30	230600.00	25810.00	287400.00	171200.00	-5584.00	92510.00	30
31	251200.00	20650.00	282200.00	230600.00	15420.00	89380.00	31
32	255800.00	32900.00	311900.00	222800.00	-224.00	84460.00	32
33	270600.00	28380.00	310600.00	228000.00	23020.00	103200.00	33
34	259600.00	16140.00	280900.00	230600.00	2912.00	82220.00	34
35	244100.00	15480.00	246700.00	216400.00	-5128.00	82230.00	35
36	277700.00	26460.00	309300.00	140300.00	-11840.00	89820.00	36
37	314500.00	41300.00	357000.00	189300.00	-6024.00	88490.00	37
38	318300.00	54190.00	372500.00	198300.00	-10050.00	109500.00	38
39	291200.00	24520.00	319600.00	255100.00	9616.00	87150.00	39
40	284800.00	30980.00	326100.00	247400.00	224.00	84910.00	40
41	302800.00	32260.00	348000.00	260300.00	10950.00	95640.00	41
42	140300.00	16130.00	226700.00	110600.00	-8264.00	89830.00	42
43	155100.00	17420.00	248000.00	100300.00	-10500.00	92960.00	43
44	188600.00	18710.00	244100.00	140300.00	-6920.00	104600.00	44
45	205400.00	22580.00	305400.00	153200.00	-9160.00	100600.00	45
46	235100.00	22580.00	259000.00	53810.00	-8704.00	96530.00	46
47	248700.00	40000.00	293800.00	148000.00	-18090.00	106800.00	47
48	182800.00	20650.00	249300.00	139000.00	-2456.00	92950.00	48

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FLIGHT LOADS

CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142

TORGW 24300 TBCR 4.4 FWD FLIGHT DATE 09/01/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
49	202800.00	25160.00	256400.00	151900.00	232.00	87590.00	49
50	123500.00	7744.00	141600.00	114400.00	-216.00	70170.00	50
51	97160.00	12260.00	117000.00	78320.00	-2000.00	71950.00	51
52	38970.00	8388.00	53810.00	22840.00	-3786.00	63010.00	52
53	-29420.00	8388.00	-21030.00	-48130.00	-8702.00	64350.00	53
54	-40390.00	11610.00	3486.00	-57810.00	1120.00	97420.00	54
55	34390.00	18710.00	46700.00	-57810.00	6488.00	78650.00	55
56	43490.00	22580.00	146700.00	-57810.00	-18540.00	82230.00	56
57	-33290.00	20000.00	-12000.00	-57810.00	-16750.00	92060.00	57
58	-39740.00	14840.00	49300.00	-57810.00	3352.00	81780.00	58
59	240900.00	30320.00	314500.00	-57810.00	-1560.00	93850.00	59
60	-10060.00	8388.00	-385.00	-22320.00	5600.00	50050.00	60
61	-44580.00	13230.00	-10710.00	-57810.00	-216.00	70170.00	61
62	-16520.00	16130.00	48650.00	-57810.00	-7368.00	99660.00	62
63	-21030.00	18070.00	18970.00	-57810.00	-7362.00	72850.00	63
64	-37160.00	13550.00	-6837.00	-57810.00	-9600.00	89380.00	64
65	-20390.00	18710.00	25420.00	-57810.00	-11380.00	87590.00	65
66	44780.00	19360.00	207400.00	-57810.00	-9600.00	92060.00	66
67	146700.00	10970.00	185400.00	154400.00	-5584.00	83570.00	67
68	208000.00	25160.00	242200.00	155700.00	-4240.00	88480.00	68
69	219000.00	28380.00	271900.00	129900.00	-4240.00	104600.00	69
70	228000.00	15480.00	277000.00	186700.00	-1560.00	89380.00	70
71	277700.00	17420.00	309300.00	240900.00	-2448.00	92060.00	71
72	288000.00	17420.00	322200.00	261600.00	-5136.00	92060.00	72
73	277700.00	16140.00	306700.00	235700.00	-5136.00	99220.00	73
74	293800.00	23220.00	322500.00	239600.00	1120.00	84910.00	74
76	277700.00	26460.00	323500.00	246100.00	1568.00	82670.00	76
77	242200.00	30330.00	320000.00	219000.00	-1112.00	89830.00	77
78	219000.00	36130.00	320900.00	-18450.00	2464.00	82670.00	78



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TGW 24300 TBCG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	6328.00	91990.00	-19620.00	109600.00	640.00	111500.00	2
3	8152.00	81060.00	-17360.00	93810.00	1080.00	97800.00	3
4	13160.00	85160.00	-15100.00	100600.00	6368.00	103100.00	4
5	13620.00	84700.00	-13300.00	100600.00	5488.00	104000.00	5
6	9976.00	82890.00	-17360.00	96510.00	2408.00	100900.00	6
7	7696.00	86990.00	-19160.00	99220.00	-680.00	104000.00	7
8	8152.00	83800.00	-17810.00	97870.00	-688.00	101300.00	8
9	9976.00	81060.00	-14200.00	96970.00	2408.00	99130.00	9
10	9520.00	79700.00	-13760.00	98320.00	2840.00	97800.00	10
11	11340.00	79700.00	-9688.00	99670.00	2840.00	96920.00	11
12	4968.00	79700.00	-2024.00	94710.00	1960.00	91640.00	12
13	8608.00	81520.00	-2928.00	97420.00	5040.00	94720.00	13
14	5416.00	84710.00	-2472.00	99670.00	5048.00	98250.00	14
15	4512.00	77420.00	2936.00	89750.00	1520.00	91200.00	15
16	9520.00	79700.00	-12850.00	92910.00	2840.00	95160.00	16
17	12710.00	76510.00	-12860.00	92010.00	5048.00	92950.00	17
18	16350.00	74690.00	-11050.00	93820.00	10340.00	91200.00	18
19	9520.00	83340.00	-12400.00	103300.00	4168.00	98250.00	19
20	8608.00	85170.00	-12850.00	102800.00	3288.00	99130.00	20
21	8608.00	85170.00	-19160.00	97420.00	-2008.00	100900.00	21
22	8608.00	86080.00	-17360.00	100100.00	-680.00	103100.00	22
23	8608.00	91540.00	-16460.00	107300.00	-680.00	110100.00	23
24	9064.00	95440.00	-16010.00	113200.00	-1128.00	115000.00	24
25	9520.00	98830.00	-17360.00	117300.00	-1120.00	120300.00	25
26	9064.00	100200.00	-16910.00	117700.00	-240.00	122000.00	26
27	9064.00	85620.00	-16460.00	107300.00	-240.00	105300.00	27
28	8152.00	88360.00	-21420.00	110500.00	-2880.00	107900.00	28
29	5872.00	92450.00	-11950.00	112800.00	1960.00	109300.00	29
30	3144.00	89720.00	-17820.00	111400.00	-240.00	110600.00	30
31	10880.00	91090.00	12400.00	105500.00	2400.00	117600.00	31
32	12260.00	80610.00	-10590.00	100600.00	4168.00	98250.00	32
33	-7232.00	97920.00	16010.00	120900.00	-5528.00	115000.00	33
34	8608.00	78780.00	-6088.00	96970.00	5048.00	91190.00	34
35	7240.00	81980.00	-16460.00	97420.00	-2008.00	100900.00	35
36	7248.00	89260.00	-28180.00	107300.00	-5088.00	111900.00	36
37	3600.00	92000.00	-17360.00	103700.00	-11250.00	113700.00	37
38	7240.00	106600.00	-17820.00	128500.00	200.00	119800.00	38
39	20000.00	84710.00	4736.00	110500.00	20460.00	104000.00	39
40	22270.00	80610.00	-8344.00	101900.00	14300.00	96920.00	40
41	7240.00	108400.00	6096.00	115500.00	6368.00	125100.00	41
42	10880.00	91090.00	-22780.00	107300.00	-1560.00	111900.00	42
43	8608.00	93360.00	-25030.00	111400.00	-4648.00	115000.00	43
44	13620.00	106600.00	-23220.00	125800.00	-680.00	133000.00	44
45	9968.00	102000.00	-22780.00	120900.00	-2008.00	125600.00	45
46	11800.00	98380.00	-24580.00	116400.00	-1560.00	121600.00	46
47	9064.00	108400.00	-22700.00	129900.00	2848.00	128600.00	47
48	14070.00	89720.00	-14660.00	110000.00	4168.00	110600.00	48

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TCGW 24300 TBCG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
49	11340.00	86080.00	-12400.00	106000.00	-2440.00	108400.00	49
50	11350.00	68770.00	-11050.00	81180.00	1960.00	81940.00	50
51	11350.00	72410.00	-14660.00	84780.00	-240.00	87660.00	51
52	11800.00	64670.00	-15560.00	77580.00	2400.00	80620.00	52
53	4048.00	71500.00	-22770.00	80280.00	-10370.00	88110.00	53
54	19080.00	93820.00	-16010.00	115900.00	1960.00	116300.00	54
55	13160.00	75140.00	-6544.00	91100.00	200.00	93400.00	55
56	4056.00	92460.00	-27740.00	104200.00	-10380.00	117200.00	56
57	7248.00	102900.00	-24500.00	119100.00	-6856.00	133000.00	57
58	1776.00	83790.00	-27730.00	100600.00	-13900.00	106600.00	58
59	11340.00	86980.00	-12400.00	108700.00	640.00	108800.00	59
60	9982.00	49190.00	-9240.00	63140.00	1530.00	60360.00	60
61	7701.00	71500.00	-7440.00	83890.00	-6848.00	88990.00	61
62	14530.00	98370.00	-27280.00	122700.00	2848.00	126900.00	62
63	9064.00	77420.00	-28180.00	86600.00	-5528.00	97370.00	63
64	3592.00	96550.00	-24580.00	118200.00	-16100.00	122900.00	64
65	3144.00	94280.00	-29540.00	111400.00	-13020.00	118100.00	65
66	10890.00	93820.00	-30440.00	113200.00	-3760.00	120300.00	66
67	9520.00	85170.00	-18710.00	98780.00	200.00	103100.00	67
68	9976.00	87450.00	-18260.00	104600.00	200.00	104900.00	68
69	14980.00	103400.00	-20520.00	124000.00	200.00	127800.00	69
70	11800.00	85620.00	-14660.00	104600.00	640.00	104400.00	70
71	10880.00	88350.00	-14200.00	109600.00	200.00	108400.00	71
72	12250.00	86980.00	-17360.00	110000.00	2840.00	107500.00	72
73	11340.00	97010.00	-27280.00	118200.00	-680.00	120700.00	73
74	11340.00	81520.00	-7888.00	100600.00	6368.00	96930.00	74
76	10430.00	78780.00	-6992.00	97870.00	4160.00	94720.00	76
77	10430.00	85170.00	-11050.00	106400.00	-2440.00	106600.00	77
78	17720.00	77880.00	-10600.00	96970.00	-3768.00	90310.00	78



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TSGW 24300 TBCR 4.4 FWD FLIGHT DATE 09/01/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	331600.00	14850.00	378700.00	316800.00	1744.00	93780.00	2
3	284500.00	9040.00	302600.00	256100.00	1296.00	73780.00	3
4	309700.00	9688.00	323200.00	296100.00	408.00	69340.00	4
5	325500.00	12260.00	350300.00	318000.00	3079.00	58670.00	5
6	274800.00	20010.00	294800.00	250900.00	3512.00	72440.00	6
7	254700.00	12260.00	279300.00	244500.00	2184.00	80890.00	7
8	238700.00	14850.00	256100.00	221200.00	400.00	91550.00	8
9	249000.00	13560.00	270300.00	226400.00	1744.00	85780.00	9
10	274800.00	13550.00	288400.00	256100.00	3512.00	84890.00	10
11	282600.00	16140.00	298700.00	263800.00	6624.00	89780.00	11
12	317400.00	23880.00	341300.00	278000.00	15960.00	117800.00	12
13	321900.00	23230.00	355500.00	289600.00	23510.00	116400.00	13
14	330300.00	30340.00	365800.00	284500.00	12400.00	125800.00	14
15	346400.00	23230.00	372300.00	307700.00	19520.00	95550.00	15
16	279300.00	11620.00	250900.00	225100.00	4408.00	83110.00	16
17	313500.00	9688.00	323200.00	288400.00	5744.00	67550.00	17
18	326100.00	11620.00	344500.00	321900.00	7968.00	55550.00	18
19	279300.00	15500.00	301300.00	250900.00	11510.00	114200.00	19
20	282500.00	18720.00	301300.00	248300.00	25290.00	132400.00	20
21	237400.00	12260.00	249600.00	216100.00	408.00	80890.00	21
22	272200.00	12260.00	244500.00	213500.00	-480.00	88000.00	22
23	245800.00	14200.00	260000.00	223800.00	848.00	96450.00	23
24	245800.00	14200.00	249000.00	226400.00	2624.00	101800.00	24
25	254800.00	15500.00	272900.00	234100.00	2184.00	106700.00	25
26	249600.00	17430.00	287100.00	231600.00	12850.00	119100.00	26
27	283200.00	23240.00	309000.00	240600.00	19070.00	125300.00	27
28	272900.00	19360.00	310300.00	239300.00	14180.00	122200.00	28
29	316800.00	20660.00	327400.00	240600.00	19070.00	124400.00	29
30	289600.00	24530.00	319300.00	238000.00	11520.00	135600.00	30
31	290300.00	18720.00	311600.00	253500.00	11960.00	93340.00	31
32	302600.00	28400.00	331000.00	247000.00	-1816.00	94660.00	32
33	270900.00	30340.00	322200.00	240600.00	24400.00	113800.00	33
34	276700.00	14200.00	293500.00	253500.00	7072.00	85780.00	34
35	284500.00	19360.00	310300.00	257400.00	4400.00	92000.00	35
36	271600.00	28400.00	311600.00	219900.00	8848.00	138200.00	36
37	344500.00	42600.00	407100.00	214800.00	17290.00	112900.00	37
38	349700.00	50340.00	422600.00	218700.00	18180.00	148400.00	38
39	30000.00	5000.00	35000.00	271600.00	14630.00	98660.00	39
40	315500.00	41300.00	356800.00	270300.00	13300.00	101800.00	40
41	285100.00	43240.00	346400.00	241900.00	38180.00	126700.00	41
42	245100.00	38720.00	305100.00	190300.00	-40.00	92890.00	42
43	274800.00	27760.00	349000.00	165700.00	-10700.00	135600.00	43
44	324200.00	26460.00	386500.00	226400.00	3960.00	135100.00	44
45	319300.00	28400.00	398100.00	241900.00	1744.00	143600.00	45
46	228300.00	21300.00	293500.00	196700.00	-3152.00	121800.00	46
47	347100.00	49060.00	416200.00	190300.00	3512.00	114200.00	47
48	348400.00	20010.00	392900.00	284500.00	11960.00	92440.00	48



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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TGW 24300 TCG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
49	367700.00	25170.00	392900.00	269000.00	848.00	82220.00	49
50	149000.00	7096.00	187700.00	161900.00	2184.00	72890.00	50
51	146400.00	9032.00	172200.00	127000.00	848.00	77780.00	51
52	29000.00	25000.00	340000.00	250000.00	-6255.00	69780.00	52
53	30830.00	21300.00	62460.00	9534.00	-8926.00	74230.00	53
54	21480.00	28400.00	74060.00	-16280.00	408.00	85340.00	54
55	37290.00	21300.00	75360.00	498.00	408.00	77340.00	55
56	44960.00	27100.00	272900.00	18570.00	-7600.00	83550.00	56
57	40510.00	40020.00	116700.00	498.00	-6704.00	73780.00	57
58	40000.00	17000.00	125000.00		-6257.00	66220.00	58
59	108900.00	36140.00	387800.00	18570.00	4400.00	77780.00	59
60	12760.00	21300.00	27930.00	-18870.00	-2255.00	58670.00	60
61	66330.00	47760.00	114100.00	-8538.00	-4039.00	67560.00	61
62	44390.00	39370.00	120900.00	6952.00	-8479.00	64000.00	62
63	42440.00	39360.00	81810.00	-35650.00	-1816.00	71560.00	63
64	44960.00	32270.00	88270.00	-9829.00	-2712.00	94660.00	64
65	50190.00	32910.00	127000.00	498.00	3960.00	83560.00	65
66	45680.00	32910.00	298700.00	27610.00	-4477.00	60000.00	66
67	238700.00	13550.00	253500.00	212200.00	-2704.00	81330.00	67
68	274100.00	30340.00	325800.00	240600.00	-928.00	85780.00	68
69	328400.00	27110.00	389000.00	278000.00	9288.00	140400.00	69
70	285100.00	17430.00	315500.00	240600.00	3512.00	86660.00	70
71	309000.00	18070.00	342600.00	281900.00	4856.00	88890.00	71
72	316800.00	18070.00	354200.00	287100.00	12850.00	100400.00	72
73	334800.00	25820.00	340600.00	287100.00	8408.00	126200.00	73
74	318000.00	23230.00	350300.00	271600.00	21290.00	110700.00	74
76	306400.00	23230.00	347700.00	274200.00	16850.00	115100.00	76
77	333500.00	33570.00	367100.00	275400.00	-488.00	120900.00	77
78	333500.00	25820.00	399400.00	46970.00	9296.00	85330.00	78

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TGGW 24300 TBCR 4.4 FWD FLIGHT DATE 09/01/77

EVENT	69170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-2992.00	98820.00	-7072.00	87300.00	2120.00	88230.00	2
3	2056.00	76950.00	-9322.00	69750.00	7551.00	69220.00	3
4	4580.00	68540.00	-8424.00	66150.00	8454.00	63790.00	4
5	4584.00	58450.00	-9324.00	58050.00	10270.00	53840.00	5
6	-48.00	75700.00	-8872.00	66600.00	6647.00	68310.00	6
7	-2152.00	87050.00	-7080.00	74700.00	3936.00	78270.00	7
8	-1304.00	96300.00	-9776.00	82800.00	4832.00	86420.00	8
9	-2576.00	89980.00	-7976.00	78300.00	3928.00	80090.00	9
10	-2152.00	92090.00	-7976.00	77400.00	4384.00	83250.00	10
11	-2992.00	95460.00	-4376.00	81900.00	2120.00	88230.00	11
12	-4352.00	122400.00	11380.00	108400.00	-592.00	114500.00	12
13	-3840.00	120700.00	14530.00	113400.00	3928.00	111800.00	13
14	-11400.00	125700.00	11380.00	116500.00	-8288.00	116700.00	14
15	-4248.00	99240.00	14970.00	96740.00	-600.00	97270.00	15
16	-4256.00	89150.00	-7520.00	76940.00	3024.00	80990.00	16
17	-464.00	68540.00	-3920.00	65250.00	5745.00	61980.00	17
18	-42.00	53830.00	-317.00	56250.00	7556.00	50220.00	18
19	-13510.00	106800.00	2376.00	103900.00	-6928.00	98180.00	19
20	-13500.00	122800.00	-1224.00	109300.00	-7384.00	100400.00	20
21	-1312.00	87890.00	-12470.00	74700.00	7096.00	79620.00	21
22	-1312.00	93780.00	-12470.00	79190.00	7552.00	84610.00	22
23	-2152.00	101300.00	-11130.00	85940.00	6640.00	90940.00	23
24	-3408.00	106000.00	-8872.00	89990.00	4384.00	94110.00	24
25	-4680.00	111400.00	-7528.00	94040.00	2568.00	98630.00	25
26	-5936.00	116100.00	-8872.00	101700.00	1208.00	103600.00	26
27	-4352.00	120700.00	8680.00	122800.00	4840.00	109900.00	27
28	-16450.00	113100.00	4176.00	117400.00	312.00	107200.00	28
29	-12660.00	120300.00	7776.00	121000.00	-1048.00	114900.00	29
30	-13080.00	123200.00	3272.00	130900.00	-2408.00	114500.00	30
31	-7832.00	99660.00	2824.00	86390.00	3472.00	93200.00	31
32	-2992.00	99660.00	-16070.00	89100.00	2120.00	92740.00	32
33	-7624.00	106800.00	5968.00	98540.00	-6936.00	95460.00	33
34	-3416.00	87460.00	-5272.00	79190.00	6192.00	79630.00	34
35	-2992.00	97980.00	-6176.00	81890.00	760.00	90490.00	35
36	-13930.00	131600.00	576.00	134500.00	-12810.00	116700.00	36
37	-16020.00	111000.00	8224.00	102600.00	-7840.00	100900.00	37
38	-24860.00	151000.00	21730.00	127800.00	-32720.00	128500.00	38
39	-12660.00	99240.00	4176.00	92240.00	-11910.00	92300.00	39
40	-8464.00	100100.00	8224.00	87300.00	4376.00	96820.00	40
41	2472.00	137900.00	14980.00	110200.00	11170.00	114500.00	41
42	-9720.00	97980.00	-8432.00	87740.00	-144.00	91390.00	42
43	-14770.00	140900.00	-21470.00	128700.00	-7832.00	131700.00	43
44	-26120.00	139600.00	-776.00	130500.00	-24580.00	133000.00	44
45	-23180.00	143400.00	-4824.00	131800.00	-19150.00	132100.00	45
46	-16450.00	122400.00	-12920.00	114700.00	-6936.00	111800.00	46
47	-12660.00	118600.00	-1672.00	105300.00	-6480.00	107700.00	47
48	4152.00	91670.00	1472.00	84140.00	11170.00	83700.00	48

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CH-46 COMPOSITE ROTOR BLADE FLIGHT STRESS SURVEY DATA, VOLUME X--ETC(U)

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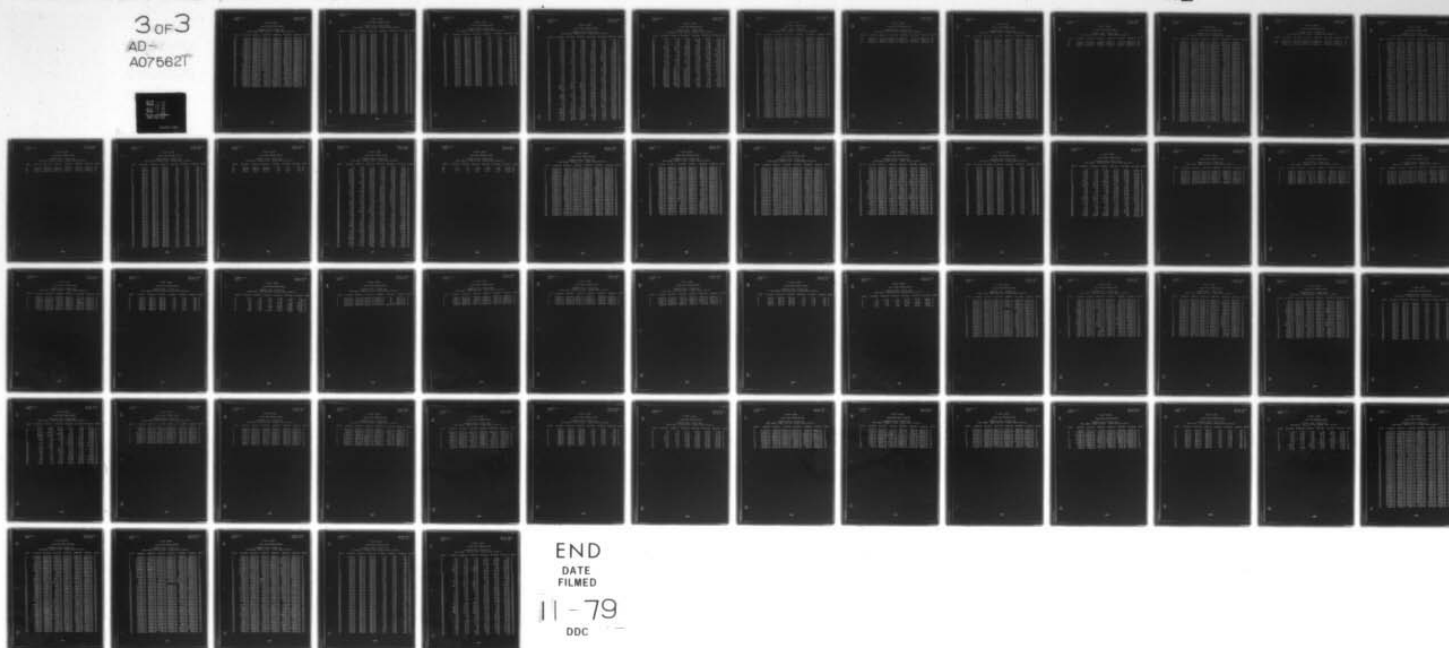
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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142

T0GW 24300 T0CG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	A9170SDY	69170ALT	A9230SDY	A9230ALT	A9240SDY	A9240ALT	EVENT
49	368.00	89570.00	-12930.00	79650.00	6648.00	83700.00	49
50	-472.00	75270.00	-12920.00	66150.00	10720.00	67860.00	50
51	1208.00	81160.00	-15170.00	72000.00	12530.00	75100.00	51
52	3736.00	73590.00	-17420.00	67950.00	15240.00	67860.00	52
53	2472.00	72330.00	-25970.00	73790.00	10270.00	71940.00	53
54	2472.00	77370.00	-17420.00	85940.00	8000.00	76910.00	54
55	-4776.00	74860.00	-21920.00	76950.00	12980.00	73740.00	55
56	-1312.00	84530.00	-24170.00	83700.00	9360.00	82800.00	56
57	1632.00	78210.00	-28220.00	75140.00	8904.00	77820.00	57
58	-10140.00	63080.00	-27320.00	69750.00	5743.00	67410.00	58
59	1208.00	76950.00	-8874.00	72900.00	11620.00	73290.00	59
60	10050.00	55500.00	-19670.00	64800.00	27460.00	61980.00	60
61	7525.00	69800.00	-25520.00	68850.00	26100.00	68760.00	61
62	2474.00	63910.00	-25520.00	73350.00	15700.00	71940.00	62
63	-56.00	72330.00	-20570.00	81000.00	23840.00	74650.00	63
64	-12660.00	87460.00	-23720.00	101200.00	13880.00	80980.00	64
65	-5096.00	87460.00	-13820.00	81440.00	9808.00	79630.00	65
66	5425.00	57610.00	-20120.00	63450.00	15700.00	61980.00	66
67	-3416.00	84100.00	-14720.00	76050.00	5736.00	75560.00	67
68	-3408.00	92510.00	-11570.00	80100.00	3928.00	83700.00	68
69	-21080.00	147200.00	576.00	132700.00	-17340.00	133900.00	69
70	-6360.00	88730.00	-8424.00	79640.00	5288.00	80540.00	70
71	-4672.00	93780.00	-7528.00	81450.00	2120.00	85510.00	71
72	-4256.00	101800.00	3720.00	89100.00	2120.00	91850.00	72
73	-18550.00	127800.00	-1672.00	116100.00	-12820.00	120400.00	73
74	-4672.00	113100.00	10020.00	101700.00	4384.00	102300.00	74
76	-2992.00	114000.00	8232.00	108000.00	7096.00	101400.00	76
77	-17300.00	124000.00	1472.00	113800.00	-11000.00	119400.00	77
78	2472.00	85780.00	-4832.00	80540.00	9360.00	78270.00	78

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TSGW 24300 TSCG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.80	264.40	1.02	1.12	.98	2
3	265.40	265.60	264.90	.97	1.00	.95	3
4	264.80	265.30	264.60	.99	1.02	.98	4
5	264.80	265.30	264.60	1.01	1.02	1.00	5
6	265.30	265.40	264.60	1.00	1.02	.99	6
7	264.80	265.30	264.40	1.02	1.04	.97	7
8	264.80	265.80	264.60	1.01	1.06	.98	8
9	264.60	265.40	263.70	.98	1.02	.91	9
10	264.70	265.10	264.40	1.01	1.01	.97	10
11	264.40	265.30	264.30	.95	1.03	.94	11
12	264.70	265.30	264.40	1.02	1.07	.99	12
13	264.80	265.30	264.10	1.01	1.06	.92	13
14	264.60	265.60	263.90	1.04	1.09	.83	14
15	264.80	265.30	264.10	.97	1.08	.93	15
16	250.30	250.30	249.30	1.02	1.03	.99	16
17	248.70	249.10	248.60	1.00	1.04	.99	17
18	249.30	249.50	248.80	.99	1.01	.97	18
19	249.60	250.20	248.20	.98	1.06	.93	19
20	248.90	249.50	247.70	.97	1.06	.93	20
21	264.80	265.30	264.40	.99	1.02	.98	21
22	264.80	265.10	264.40	1.01	1.02	.99	22
23	264.90	265.80	264.60	1.02	1.04	1.00	23
24	265.30	265.60	264.40	.98	1.02	.92	24
25	265.40	265.80	264.60	.97	1.02	.95	25
26	265.30	266.00	264.40	.97	1.01	.91	26
27	264.70	266.00	263.30	1.16	1.23	1.00	27
28	264.70	266.20	263.70	1.14	1.24	.94	28
29	264.50	266.00	263.30	1.08	1.21	1.00	29
30	266.10	266.80	263.50	1.02	1.27	.94	30
31	264.80	265.40	264.30	1.05	1.06	.98	31
32	264.80	266.00	264.30	.96	1.08	.88	32
33	264.10	265.40	263.10	1.00	1.05	.92	33
34	264.90	265.60	264.10	1.00	1.02	.92	34
35	264.40	265.60	264.10	.93	1.04	.90	35
36	265.80	268.60	264.10	1.06	1.31	.72	36
37	268.30	271.40	262.40	1.27	1.36	.90	37
38	267.20	271.10	263.70	1.18	1.44	.87	38
39	264.60	265.40	264.30	1.02	1.06	.94	39
40	265.30	265.80	264.40	.97	1.03	.92	40
41	263.70	266.00	263.10	.95	1.02	.84	41
42	265.00	267.00	263.10	1.09	1.25	.96	42
43	266.60	268.20	261.80	1.31	1.39	.98	43
44	264.00	266.40	262.90	1.20	1.46	.97	44
45	264.50	266.80	262.90	1.09	1.42	.94	45
46	266.50	269.40	262.40	1.00	1.37	.76	46
47	265.10	271.80	262.60	1.18	1.50	.87	47
48	264.70	265.40	264.10	1.17	1.24	1.03	48

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TGW 24300 TACG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
49	264.70	265.60	264.30	1.02	1.19	.97	49
50	264.80	265.60	263.70	.96	1.01	.93	50
51	265.50	266.20	264.10	1.10	1.13	1.02	51
52	264.80	265.60	263.50	1.09	1.11	.97	52
53	275.40	283.80	271.90	1.02	1.07	.93	53
54	280.60	286.10	277.10	1.15	1.44	.91	54
55	269.00	280.90	257.10	1.07	1.34	.95	55
56	258.40	278.60	251.40	1.29	1.53	1.01	56
57	280.60	284.10	274.60	1.43	1.69	.95	57
58	262.00	281.40	253.70	1.47	1.55	.88	58
59	260.40	276.70	252.80	1.16	1.35	.92	59
60	275.30	277.10	272.60	.98	1.02	.92	60
61	271.60	294.40	270.60	.97	1.38	.93	61
62	265.00	282.50	256.60	.91	1.64	.79	62
63	282.80	288.60	260.70	1.14	1.44	.65	63
64	280.80	286.90	269.60	1.56	1.74	.94	64
65	287.10	298.30	257.90	1.74	1.93	.96	65
66	265.80	279.30	253.00	1.21	1.50	.90	66
67	264.80	265.10	264.40	1.03	1.11	.98	67
68	264.30	264.60	263.90	1.17	1.19	1.12	68
69	265.40	267.20	263.90	1.53	1.60	1.33	69
70	264.80	265.40	263.70	1.12	1.17	1.08	70
71	263.90	265.10	263.30	1.10	1.17	1.05	71
72	264.30	264.60	264.10	1.22	1.23	1.15	72
73	264.80	266.20	264.30	1.25	1.34	1.19	73
74	264.70	265.60	264.10	.99	1.19	.94	74
76	264.80	265.40	264.40	1.14	1.20	1.11	76
77	264.90	266.00	264.10	1.25	1.36	1.13	77
78	264.30	269.60	259.80	1.00	1.13	.95	78



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TGGW 24300 TCGG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.40	1.40	-3.34	-6.35	4.66	-7.50	2
3	-.07	.25	-.89	.80	2.34	.12	3
4	-.15	.09	-.56	3.29	3.71	1.66	4
5	-.07	.58	-.89	3.29	3.63	2.43	5
6	-.07	.09	-1.05	.89	1.92	.55	6
7	-.07	.09	-.40	-.27	.80	-.65	7
8	-.15	.42	-1.22	-.40	1.32	-1.68	8
9	-1.13	-.24	-1.71	-2.45	-.31	-2.88	9
10	-.07	.58	-.40	-1.68	-.57	-2.71	10
11	-.07	.42	-.56	-4.29	-1.77	-4.68	11
12	-1.38	-.24	-1.54	-3.52	-2.28	-4.08	12
13	.83	1.72	-.73	-3.22	-1.34	-5.79	13
14	-1.13	1.07	-1.87	-3.35	-2.19	-7.25	14
15	1.32	2.21	-1.22	-2.32	.12	-3.39	15
16	.34	1.07	-.07	-1.00	.20	-1.34	16
17	.09	.42	-.89	-.87	.29	-1.42	17
18	-.07	.09	-1.05	1.15	3.20	-.48	18
19	.01	1.56	-.73	-2.58	-1.68	-4.25	19
20	-.15	1.72	-1.38	-5.45	-2.62	-6.22	20
21	.66	1.72	-.40	-.52	.29	-1.00	21
22	.74	1.40	.09	-1.64	-.74	-2.19	22
23	-.07	.58	-.73	-1.94	-1.42	-2.71	23
24	-.07	.91	-.40	-3.52	-1.94	-4.25	24
25	1.40	2.54	1.07	-4.12	-3.31	-4.68	25
26	.83	1.56	.25	-5.70	-4.08	-6.13	26
27	-.07	5.97	-29.96	-2.28	1.92	-4.93	27
28	11.93	30.47	-3.18	-2.41	3.46	-2.97	28
29	-22.62	6.95	-34.70	-1.72	1.74	-6.73	29
30	20.42	36.35	-6.44	3.29	4.91	-2.97	30
31	-.89	.74	-2.69	-1.51	-1.08	-2.71	31
32	.09	.42	-.89	-4.34	-1.42	-4.85	32
33	.01	1.56	-.73	-2.58	-1.94	-3.39	33
34	6.62	7.11	3.19	-3.39	-2.02	-3.82	34
35	-5.55	-4.65	-7.59	-3.86	-2.54	-4.25	35
36	-1.46	.25	-2.20	-6.90	2.26	-12.04	36
37	.09	.74	-.89	-1.94	-1.34	-2.71	37
38	.42	1.07	-.40	-1.08	.37	-2.79	38
39	-.07	1.40	-.56	-2.11	-1.77	-3.22	39
40	.01	1.23	-1.22	-5.40	-2.97	-6.30	40
41	.99	2.05	-.89	-5.02	-3.73	-5.28	41
42	-20.57	-.24	-31.11	2.69	4.48	-2.79	42
43	9.97	34.39	-1.71	.12	3.11	-3.82	43
44	-19.35	-1.54	-47.93	1.53	2.60	-2.02	44
45	15.04	44.03	-2.52	1.32	4.48	-2.19	45
46	-1.05	1.07	-1.87	-10.63	10.82	-14.95	46
47	-.24	1.56	-2.03	.07	.97	-2.54	47
48	-16.24	-2.69	-31.27	4.36	14.07	2.43	48

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 142  
TCGW 24300 TBCG 4.4 FWD FLIGHT DATE 09/01/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
49	5.48	31.94	-3.01	8.42	10.22	.03	49
50	-0.07	.25	-.73	-2.15	-1.00	-2.62	50
51	-0.07	2.05	-.24	.55	1.15	-.74	51
52	.42	.58	.09	.63	.89	-.05	52
53	-1.71	-1.54	-2.69	5.64	6.03	2.86	53
54	-11.10	-6.61	-44.50	3.50	6.28	.89	54
55	18.87	40.11	3.52	2.22	10.48	-24.54	55
56	.25	5.81	-2.52	-3.86	14.25	-17.61	56
57	-.24	.58	-1.22	6.41	7.48	4.83	57
58	-17.14	1.56	-51.53	-8.40	2.94	-18.72	58
59	3.52	4.34	-4.48	-3.35	18.36	-19.41	59
60	-0.07	.91	-.24	4.78	5.17	4.23	60
61	17.40	34.55	4.99	4.23	7.82	2.60	61
62	-11.51	-6.93	-46.95	-7.55	.55	-13.07	62
63	2.05	3.03	-1.05	5.17	10.56	-3.39	63
64	8.91	9.73	1.23	1.66	3.80	-1.68	64
65	17.97	47.95	.42	6.54	13.13	-15.04	65
66	-11.42	-1.71	-14.45	20.67	22.46	1.23	66
67	-16.33	-15.10	-17.55	-2.41	1.06	-2.97	67
68	-25.64	-25.07	-27.68	2.47	3.11	2.00	68
69	-46.54	-42.21	-49.73	-2.54	4.23	-7.16	69
70	-21.23	-19.68	-21.80	.63	1.74	-.40	70
71	-26.54	-25.72	-27.35	.12	1.74	-.57	71
72	-37.07	-36.01	-38.13	2.64	4.31	1.23	72
73	-40.83	-40.58	-43.69	-3.52	.63	-4.68	73
74	-14.04	-12.65	-15.75	-1.00	1.40	-2.45	74
76	-29.31	-28.00	-30.29	5.56	6.45	4.66	76
77	-43.28	-39.60	-43.69	1.32	5.43	-3.56	77
78	2.79	6.95	-8.73	9.19	12.28	-.74	78

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TGW 24300 TSCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	41200SDY	61200ALT	41200MAX	61200MIN	41160SDY	41160ALT	EVENT
1	178200.00	11700.00	199000.00	158700.00	-1684.00	40230.00	1
2	278900.00	21450.00	343200.00	178200.00	-3025.00	39780.00	2
3	293900.00	15590.00	313400.00	260100.00	-1684.00	42020.00	3
4	272400.00	14940.00	327600.00	210700.00	532.00	41570.00	4
5	274400.00	26000.00	322400.00	228900.00	-1636.00	80460.00	5
6	230200.00	41590.00	339400.00	61220.00	4568.00	92980.00	6
7	243300.00	27940.00	318600.00	163900.00	-3032.00	85380.00	7
8	252300.00	33790.00	286100.00	44320.00	-792.00	90300.00	8
9	282200.00	22100.00	318600.00	208100.00	-3480.00	84940.00	9
10	210700.00	14300.00	232800.00	165200.00	-7952.00	88510.00	10
11	208100.00	10400.00	223700.00	191200.00	-5720.00	83590.00	11
12	159300.00	11050.00	184700.00	145700.00	-5712.00	81810.00	12
13	141900.00	12350.00	183400.00	118400.00	-5712.00	86270.00	13
14	174300.00	10400.00	202900.00	163900.00	-4376.00	84040.00	14
15	182700.00	12350.00	201600.00	144400.00	-4348.00	85820.00	15
16	199600.00	11050.00	213300.00	183400.00	-3480.00	84040.00	16
17	230200.00	11700.00	253600.00	217200.00	544.00	82700.00	17
18	247700.00	18840.00	297800.00	212000.00	2336.00	88060.00	18
19	292600.00	18190.00	318600.00	262700.00	3224.00	85380.00	19
20	245900.00	18850.00	312100.00	160000.00	544.00	82700.00	20
21	234700.00	17540.00	297800.00	208100.00	-4816.00	94320.00	21
22	271100.00	13650.00	293900.00	244500.00	-2584.00	84940.00	22
23	106000.00	7152.00	113200.00	32000.00	-4816.00	78220.00	23
24	87860.00	8448.00	102800.00	30020.00	-4816.00	73760.00	24
25	204800.00	14940.00	241900.00	49520.00	-6160.00	90300.00	25
26	243800.00	16250.00	282200.00	195100.00	-1688.00	96550.00	26
27	235400.00	18190.00	273100.00	199000.00	96.00	89410.00	27
28	152200.00	10400.00	183400.00	140500.00	-3480.00	81350.00	28
29	154800.00	13000.00	147800.00	124900.00	5022.00	52300.00	29
30	145200.00	10400.00	187300.00	148300.00	5916.00	48730.00	30
31	174900.00	8448.00	191200.00	165200.00	5469.00	47380.00	31
32	197000.00	9752.00	209400.00	167800.00	8598.00	53200.00	32
33	211300.00	11040.00	228900.00	192500.00	7257.00	55430.00	33
34	236700.00	16900.00	242700.00	199000.00	9043.00	65260.00	34
35	240700.00	16250.00	290000.00	204200.00	7255.00	67050.00	35
36	293900.00	19500.00	325100.00	270500.00	11720.00	69730.00	36
37	304300.00	18190.00	325100.00	176900.00	9933.00	67940.00	37
38	235400.00	20800.00	280900.00	199000.00	8593.00	63020.00	38
39	100800.00	12350.00	127500.00	87200.00	9492.00	52300.00	39
40	48220.00	9098.00	66400.00	27420.00	7258.00	42910.00	40
41	155400.00	14940.00	287400.00	41720.00	5469.00	57220.00	41
42	210700.00	33790.00	280900.00	40420.00	-3032.00	86280.00	42
43	200300.00	35100.00	292600.00	49520.00	-792.00	83140.00	43
44	271800.00	15590.00	300400.00	126200.00	-9283.00	40680.00	44
45	304900.00	13650.00	327600.00	204200.00	-1236.00	36210.00	45
46	246400.00	14950.00	290000.00	162600.00	-789.00	37550.00	46
47	221700.00	12350.00	243200.00	209400.00	7257.00	57220.00	47



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143

TSGW 24300 TBCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	A1200SDY	61200ALT	A1200MAX	61200MIN	41160SDY	41160ALT	EVENT
48	245300.00	15600.00	282200.00	244500.00	7701.00	65710.00	48
49	317900.00	22740.00	348400.00	295200.00	10830.00	74200.00	49
50	347800.00	42250.00	405600.00	252300.00	11720.00	76880.00	50

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TGW 24300 TSCR 1.5 AFT FLIGHT DATE 09/02/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	-5295.00	41400.00	-5500.00	46320.00	-9096.00	48900.00	1
2	4990.00	39130.00	-2353.00	48570.00	5002.00	48900.00	2
3	7445.00	38680.00	-4152.00	50370.00	5443.00	48460.00	3
4	1530.00	40950.00	-1453.00	51270.00	5883.00	51550.00	4
5	7440.00	76900.00	-8656.00	93550.00	6760.00	90310.00	5
6	15180.00	90090.00	1240.00	106100.00	11600.00	102200.00	6
7	10620.00	82810.00	-10900.00	100300.00	6760.00	100000.00	7
8	12900.00	88720.00	-3712.00	103900.00	8080.00	103100.00	8
9	7432.00	80540.00	-4608.00	100300.00	6752.00	95600.00	9
10	9712.00	86450.00	-14050.00	103400.00	4552.00	105700.00	10
11	9712.00	79170.00	-11350.00	97140.00	4552.00	95160.00	11
12	8344.00	80540.00	-12700.00	94000.00	1032.00	96920.00	12
13	11080.00	86900.00	-15400.00	100300.00	5880.00	103500.00	13
14	9712.00	81900.00	-12700.00	97600.00	2352.00	96480.00	14
15	10170.00	85990.00	-14500.00	100300.00	2792.00	102200.00	15
16	9712.00	80990.00	-10460.00	98040.00	1912.00	96040.00	16
17	6976.00	80080.00	-7760.00	95340.00	5432.00	92520.00	17
18	5616.00	86000.00	-3264.00	103400.00	2792.00	99560.00	18
19	3344.00	87360.00	-560.00	100700.00	-1176.00	102600.00	19
20	4984.00	81900.00	1688.00	96700.00	4552.00	96040.00	20
21	12450.00	87360.00	-12260.00	111500.00	3672.00	105700.00	21
22	9256.00	81450.00	-10000.00	99390.00	4992.00	96480.00	22
23	12900.00	77800.00	-14060.00	89940.00	3232.00	93840.00	23
24	11080.00	75070.00	-19000.00	87700.00	1912.00	92520.00	24
25	8808.00	91000.00	-17660.00	106100.00	1472.00	108800.00	25
26	12440.00	90090.00	-9104.00	114700.00	5872.00	107100.00	26
27	9712.00	84620.00	-8656.00	105200.00	3672.00	99560.00	27
28	11990.00	79620.00	-12260.00	94450.00	3672.00	96040.00	28
29	5170.00	54600.00	-1903.00	62510.00	-284.50	63880.00	29
30	4990.00	47320.00	-3252.00	57570.00	596.50	55070.00	30
31	6535.00	48680.00	-1903.00	57120.00	2359.00	58590.00	31
32	4715.00	55050.00	2595.00	62510.00	-289.00	65650.00	32
33	4715.00	56870.00	1690.00	65210.00	-2056.00	68280.00	33
34	2432.00	68260.00	4392.00	76900.00	-2936.00	81500.00	34
35	4260.00	66430.00	1688.00	79610.00	-2496.00	80180.00	35
36	3800.00	73260.00	8440.00	84550.00	-2936.00	89430.00	36
37	4704.00	70530.00	6632.00	83660.00	-2496.00	84590.00	37
38	4713.00	64150.00	2136.00	75560.00	1032.00	78420.00	38
39	8810.00	53690.00	-1453.00	62060.00	-285.00	61240.00	39
40	7900.00	42770.00	-3702.00	53520.00	2800.00	51100.00	40
41	8810.00	55510.00	-1912.00	68810.00	1918.00	65200.00	41
42	10620.00	85540.00	-18100.00	101200.00	-296.00	98250.00	42
43	10620.00	80990.00	-12260.00	98050.00	1032.00	96040.00	43
44	1530.00	47320.00	-14500.00	48120.00	-8655.00	56390.00	44
45	11990.00	36850.00	-9098.00	44520.00	3681.00	44060.00	45
46	8355.00	38680.00	-11800.00	46320.00	156.00	49340.00	46
47	8351.00	58690.00	-1008.00	69710.00	2792.00	70490.00	47

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TGW 24300 TCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
48	4078.00	70070.00	-112.00	81410.00	1472.00	83260.00	48
49	8352.00	76900.00	5288.00	89500.00	1464.00	89430.00	49
50	9712.00	79170.00	2584.00	93100.00	6752.00	92960.00	50



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TORGW 24300 TORG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	207700.00	13470.00	227600.00	193000.00	-2623.00	29230.00	1
2	315500.00	21160.00	344300.00	204500.00	-2181.00	32330.00	2
3	319300.00	8336.00	345600.00	289200.00	-6609.00	36760.00	3
4	302000.00	11540.00	328900.00	219900.00	919.50	38090.00	4
5	341600.00	14750.00	394400.00	327700.00	-1738.00	56690.00	5
6	384000.00	33990.00	457200.00	214800.00	-3960.00	70410.00	6
7	327000.00	27570.00	417400.00	249400.00	464.00	82820.00	7
8	282100.00	44250.00	446900.00	137800.00	2680.00	95660.00	8
9	370000.00	12820.00	389200.00	343100.00	-1295.00	59790.00	9
10	311000.00	16670.00	340500.00	260200.00	912.00	83260.00	10
11	302000.00	11540.00	326400.00	290500.00	-416.00	75730.00	11
12	271900.00	13470.00	287900.00	253300.00	1800.00	73510.00	12
13	241100.00	14750.00	276400.00	219900.00	24.00	78820.00	13
14	244200.00	12180.00	276400.00	243000.00	1352.00	79270.00	14
15	258400.00	14100.00	285300.00	237900.00	464.00	85470.00	15
16	244100.00	11540.00	277600.00	244300.00	1360.00	81040.00	16
17	301400.00	13460.00	314800.00	284100.00	3120.00	78380.00	17
18	303900.00	18590.00	358400.00	273800.00	12860.00	97870.00	18
19	347500.00	18600.00	372600.00	326400.00	11100.00	87240.00	19
20	271200.00	33340.00	347400.00	222500.00	6232.00	83260.00	20
21	328300.00	21160.00	342300.00	277600.00	11980.00	127100.00	21
22	323800.00	16670.00	350800.00	284100.00	3120.00	88130.00	22
23	201300.00	10900.00	212200.00	172500.00	-3520.00	71740.00	23
24	124400.00	10900.00	182700.00	113500.00	-8392.00	73960.00	24
25	239200.00	21810.00	357200.00	145500.00	2240.00	93440.00	25
26	308400.00	17960.00	326600.00	261000.00	14640.00	116500.00	26
27	303900.00	18590.00	331500.00	270000.00	8440.00	105800.00	27
28	240300.00	13460.00	281500.00	246900.00	6676.00	70410.00	28
29	241600.00	14750.00	284100.00	239200.00	2248.00	33210.00	29
30	240300.00	9616.00	281500.00	245600.00	1363.00	27010.00	30
31	240300.00	8336.00	275100.00	252000.00	4020.00	32330.00	31
32	243500.00	8976.00	276400.00	250700.00	4020.00	39410.00	32
33	278300.00	8336.00	286600.00	262300.00	4906.00	42960.00	33
34	320600.00	31420.00	352000.00	263500.00	6234.00	54030.00	34
35	323800.00	28220.00	352000.00	281500.00	4906.00	59790.00	35
36	342400.00	19880.00	372600.00	321200.00	9776.00	64660.00	36
37	346300.00	16030.00	346100.00	237900.00	8886.00	61990.00	37
38	298800.00	23720.00	341800.00	268700.00	5348.00	57570.00	38
39	209700.00	12820.00	223800.00	187900.00	4463.00	31000.00	39
40	154400.00	31420.00	187900.00	125000.00	5348.00	30110.00	40
41	197500.00	21170.00	377700.00	145500.00	6234.00	43400.00	41
42	385400.00	26940.00	425100.00	166100.00	-1304.00	95210.00	42
43	380300.00	24370.00	430300.00	207100.00	5784.00	90790.00	43
44	236600.00	28220.00	309700.00	140400.00	4020.00	25130.00	44
45	302700.00	10900.00	327700.00	221200.00	2248.00	30560.00	45
46	249400.00	12820.00	287900.00	175000.00	34.00	33660.00	46
47	228500.00	13470.00	252000.00	214800.00	8448.00	65980.00	47

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TSGW 24300 TSCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
48	277000.00	18600.00	296900.00	254600.00	11540.00	69080.00	48
49	332200.00	25010.00	357200.00	302000.00	10650.00	80600.00	49
50	329600.00	41690.00	402000.00	255800.00	8840.00	92110.00	50

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TQGW 24300 TQCR 1.5 AFT FLIGHT DATE 09/02/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	-1990.00	28940.00	-4939.00	26480.00	+3.00	25260.00	1
2	-2435.00	32950.00	-5837.00	32770.00	-2213.00	32030.00	2
3	-1544.00	40070.00	-9877.00	36810.00	-4017.00	40150.00	3
4	-8669.00	37400.00	-10330.00	38150.00	-3566.00	38790.00	4
5	5581.00	55210.00	-8081.00	56560.00	2299.00	55480.00	5
6	2896.00	70350.00	-12580.00	69130.00	5000.00	67210.00	6
7	1120.00	83710.00	-8984.00	79000.00	4992.00	77140.00	7
8	9576.00	98410.00	-7192.00	91580.00	10410.00	91580.00	8
9	4690.00	58780.00	-11230.00	59700.00	5006.00	59090.00	9
10	680.00	85050.00	-6744.00	80340.00	7256.00	77590.00	10
11	-216.00	76140.00	-10780.00	72720.00	4549.00	67660.00	11
12	-2440.00	74810.00	-7600.00	75410.00	4096.00	66300.00	12
13	-3328.00	81040.00	-9435.00	73170.00	5000.00	71720.00	13
14	-1104.00	84160.00	-10780.00	73620.00	6352.00	74880.00	14
15	-2440.00	91720.00	-11230.00	79460.00	5896.00	82550.00	15
16	-2000.00	85940.00	-8984.00	75420.00	7704.00	75340.00	16
17	-2000.00	83260.00	-8987.00	72730.00	3640.00	75780.00	17
18	-10900.00	100200.00	3136.00	89330.00	-4024.00	93380.00	18
19	-6000.00	89060.00	3136.00	80350.00	488.00	82550.00	19
20	-2440.00	89050.00	-7640.00	77660.00	6352.00	83010.00	20
21	-17140.00	118000.00	4928.00	118000.00	-8984.00	111000.00	21
22	-2888.00	94840.00	-6736.00	81250.00	3640.00	87510.00	22
23	2008.00	74810.00	-13020.00	65990.00	12670.00	66760.00	23
24	-1992.00	77030.00	-20200.00	74970.00	6808.00	73530.00	24
25	-5112.00	99740.00	-10340.00	88430.00	936.00	90220.00	25
26	-20260.00	112200.00	1344.00	114500.00	-11250.00	105100.00	26
27	-12680.00	108200.00	-904.00	103200.00	-4024.00	101500.00	27
28	-2888.00	73460.00	-7190.00	67340.00	6353.00	65860.00	28
29	-3771.00	33400.00	-4042.00	30970.00	3201.00	30220.00	29
30	-4661.00	28050.00	-5388.00	26930.00	4555.00	26160.00	30
31	-4216.00	30280.00	-4490.00	33220.00	7261.00	31580.00	31
32	-1544.00	36510.00	-6734.00	39950.00	6358.00	37890.00	32
33	682.00	41410.00	11670.00	55660.00	8614.00	42850.00	33
34	-4216.00	56990.00	-5388.00	55660.00	4554.00	56840.00	34
35	-71460.00	120700.00	-2695.00	59250.00	4103.00	60000.00	35
36	-216.00	68120.00	-3144.00	60600.00	3649.00	63150.00	36
37	1573.00	61890.00	-3144.00	58800.00	3201.00	60000.00	37
38	2464.00	55660.00	-5837.00	58800.00	10410.00	57280.00	38
39	-1989.00	33400.00	-5388.00	30520.00	7261.00	30670.00	39
40	-3770.00	29830.00	-8081.00	33220.00	8614.00	29320.00	40
41	7361.00	46310.00	-4490.00	43090.00	5907.00	38340.00	41
42	2904.00	97960.00	-15270.00	95160.00	10860.00	92020.00	42
43	11360.00	93950.00	-8984.00	87980.00	18530.00	87970.00	43
44	-5552.00	26270.00	-5837.00	29180.00	2299.00	26610.00	44
45	-5997.00	30280.00	-9877.00	28730.00	2299.00	29320.00	45
46	-6887.00	34730.00	-9877.00	33220.00	3652.00	34280.00	46
47	-216.00	68120.00	-7637.00	60600.00	11770.00	60440.00	47



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TSGW 24300 TSCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
48	-564.00	69460.00	-3600.00	61950.00	7711.00	60900.00	48
49	-3336.00	77480.00	-2696.00	70020.00	2743.00	67660.00	49
50	-4672.00	88610.00	-5840.00	82140.00	2736.00	79390.00	50

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TOGW 24300 TOCG 145 AFT FLIGHT DATE 09/02/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	264.90	265.80	264.60	.99	1.03	.96	1
2	264.60	265.60	263.50	.96	1.07	.90	2
3	264.70	266.00	264.30	.99	1.01	.94	3
4	264.60	265.40	263.30	.99	1.03	.97	4
5	265.70	266.20	264.60	.99	1.04	.97	5
6	263.90	267.40	262.90	1.00	1.07	.94	6
7	265.30	266.60	264.60	1.04	1.08	.95	7
8	264.50	269.80	263.30	.96	1.16	.91	8
9	265.60	266.60	264.40	1.05	1.07	.98	9
10	265.10	265.80	264.40	1.05	1.13	.95	10
11	265.30	265.40	264.60	.99	1.01	.95	11
12	265.30	265.60	264.60	.99	1.04	.96	12
13	266.40	266.80	263.70	1.02	1.07	.94	13
14	265.10	265.60	264.40	.97	1.01	.93	14
15	264.70	266.20	264.10	1.04	1.12	.96	15
16	264.80	265.60	264.40	.96	1.02	.93	16
17	264.80	265.40	264.40	.98	1.02	.96	17
18	264.80	266.00	264.10	1.01	1.08	.90	18
19	264.80	266.00	264.60	.97	1.05	.93	19
20	266.60	266.80	264.40	1.02	1.06	.94	20
21	264.70	265.80	263.70	1.13	1.17	.95	21
22	265.50	266.00	264.40	.86	1.08	.80	22
23	266.30	266.40	266.00	.96	.99	.96	23
24	266.50	267.80	265.60	.93	1.04	.88	24
25	263.20	265.30	261.60	1.07	1.17	.90	25
26	264.60	266.40	263.70	1.00	1.19	.87	26
27	264.80	266.20	263.70	1.10	1.17	.95	27
28	265.60	266.00	264.60	1.02	1.07	.96	28
29	264.80	265.40	264.40	.98	1.04	.97	29
30	264.80	265.60	264.60	.97	1.01	.95	30
31	264.70	265.30	264.40	.98	1.01	.97	31
32	265.40	266.00	264.60	.95	1.06	.94	32
33	264.80	265.40	264.60	.99	1.02	.98	33
34	264.30	265.80	264.40	1.05	1.11	.90	34
35	265.20	266.40	264.10	.98	1.21	.93	35
36	264.80	265.40	264.60	1.00	1.05	.92	36
37	266.40	266.60	264.90	1.02	1.06	.94	37
38	264.80	266.20	264.10	1.03	1.14	.91	38
39	265.20	265.80	264.60	.98	1.04	.94	39
40	264.90	265.80	263.30	.96	1.03	.93	40
41	263.60	265.10	261.30	1.15	1.22	.99	41
42	265.40	267.20	263.30	1.01	1.13	.93	42
43	266.70	267.90	263.30	.98	1.06	.90	43
44	267.50	271.80	264.60	1.16	1.31	.73	44
45	264.10	265.40	263.10	1.02	1.05	.95	45
46	266.30	267.00	264.30	.99	1.09	.95	46
47	265.00	265.40	264.90	1.03	1.09	.94	47

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TGW 24300 TCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
48	264.80	265.30	264.60	1.02	1.07	.97	48
49	265.20	265.40	264.90	.98	1.04	.93	49
50	265.00	266.20	263.70	.95	1.23	.69	50



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TGW 24300 TACG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	.42	1.40	-.72	4.99	5.38	3.81	1
2	-1.37	-.39	-3.16	6.72	7.55	5.03	2
3	-2.34	-2.02	-3.48	4.42	5.20	3.56	3
4	-4.22	.91	-5.27	5.07	6.59	3.99	4
5	-1.12	2.86	-2.99	-2.86	2.60	-3.65	5
6	-.96	1.89	-4.14	4.42	12.32	-3.65	6
7	-2.59	.75	-3.32	-4.30	3.30	-6.16	7
8	-.96	.42	-4.46	8.98	13.97	5.46	8
9	-1.45	1.56	-3.16	-.74	2.34	-3.30	9
10	5.63	12.14	-1.53	.56	3.73	-3.56	10
11	-.96	.59	-2.02	-1.04	-.52	-2.95	11
12	-.80	.42	-2.02	-1.09	.95	-2.00	12
13	.34	1.89	-1.20	-3.26	-.18	-3.73	13
14	-.06	.42	-1.20	-3.47	-2.08	-5.03	14
15	-1.04	15.89	-5.76	-2.26	2.51	-3.04	15
16	-.39	.59	-1.20	-5.12	-4.43	-5.99	16
17	1.07	1.73	-.55	-3.52	-3.30	-5.21	17
18	-.15	2.86	-1.69	-6.29	-4.08	-7.46	18
19	.50	3.03	-1.37	-6.81	-4.17	-7.11	19
20	.42	1.56	-1.20	-3.30	-2.26	-6.33	20
21	8.89	16.70	.59	-3.69	-1.39	-7.64	21
22	-2.43	9.05	-8.04	4.60	7.20	2.17	22
23	-.39	.26	-.88	-1.78	-1.04	-2.34	23
24	-.80	-.39	-2.34	-2.43	-.78	-3.21	24
25	-.88	-.23	-1.86	-3.47	.52	-6.07	25
26	1.40	9.05	-18.14	-.78	3.12	-8.68	26
27	1.64	22.89	-6.41	-2.65	.61	-6.16	27
28	-.23	.10	-.88	-2.73	-.61	-3.39	28
29	-.39	.42	-.55	3.95	4.68	3.56	29
30	-.23	.42	-.39	1.95	3.38	1.47	30
31	.10	.59	-.72	2.04	2.17	1.47	31
32	-.31	-.06	-2.18	2.30	2.60	-.35	32
33	1.48	2.21	-.06	-.17	.52	-.52	33
34	-.15	3.19	-1.04	-4.51	-1.04	-4.95	34
35	-3.73	2.70	-17.16	4.21	8.41	-3.39	35
36	.75	1.40	-1.53	-4.86	-3.04	-5.81	36
37	.99	3.19	-2.67	-.52	.52	-5.55	37
38	3.44	21.26	-4.79	5.25	5.81	-4.43	38
39	-.39	-.23	-1.04	2.08	3.38	1.56	39
40	-.80	.42	-2.34	7.50	8.07	3.56	40
41	-1.12	1.07	-1.86	.48	2.69	-.70	41
42	-1.86	.75	-3.97	6.42	7.37	.09	42
43	-2.99	-.39	-6.25	-.83	10.32	-6.51	43
44	1.73	4.82	-.39	5.16	5.90	3.03	44
45	-1.86	-1.04	-6.09	4.34	5.64	3.47	45
46	-1.77	-1.04	-2.51	4.90	5.90	4.60	46
47	.02	.10	-.06	-.00	.78	-1.82	47

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## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 143  
TGW 24300 TCG 1.5 AFT FLIGHT DATE 09/02/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
48	.02	.10	-.06	-.83	-.09	-1.82	48
49	-.06	.10	-.23	-.96	-.09	-1.91	49
50	.02	.10	-.06	-1.00	-.09	-2.08	50

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 151  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 09/13/77

EVENT	41200SDY	41200ALT	41200MAX	41200MIN	41160SDY	41160ALT	EVENT
2	228200.00	9800.00	251000.00	198800.00	-5800.00	76340.00	2
3	154300.00	5880.00	146100.00	141300.00	-5792.00	73680.00	3
4	146800.00	7184.00	180500.00	153000.00	-3584.00	74130.00	4
5	197500.00	7832.00	206600.00	189600.00	-1360.00	70130.00	5
6	220300.00	9800.00	235300.00	197500.00	2192.00	70130.00	6
7	273900.00	13720.00	287600.00	244500.00	4408.00	72340.00	7
8	298100.00	16980.00	319000.00	269300.00	7518.00	72790.00	8
9	219700.00	15670.00	295500.00	204000.00	-1360.00	85220.00	9
10	262800.00	20900.00	317700.00	217100.00	856.00	77670.00	10
11	241200.00	18940.00	278500.00	168700.00	856.00	83000.00	11
12	268700.00	18940.00	311100.00	188300.00	4856.00	81670.00	12
13	136100.00	7840.00	157000.00	128200.00	-5352.00	75900.00	13
14	175900.00	8496.00	187000.00	167400.00	-2688.00	78560.00	14
15	199400.00	9792.00	209200.00	188300.00	-1800.00	77670.00	15
16	249700.00	10460.00	260200.00	236700.00	-1808.00	78560.00	16
17	239300.00	11750.00	253600.00	227500.00	-912.00	74130.00	17
18	209900.00	18940.00	270600.00	190900.00	-1808.00	83890.00	18
19	236000.00	13720.00	270600.00	204000.00	-1360.00	84340.00	19
20	142200.00	15680.00	235300.00	92940.00	-6688.00	85220.00	20
21	215100.00	7184.00	222300.00	145200.00	-6240.00	72350.00	21
22	131500.00	7184.00	153000.00	124300.00	5306.00	42170.00	22
23	155700.00	6536.00	142200.00	149100.00	3974.00	39950.00	23
24	187000.00	7840.00	198800.00	179200.00	4862.00	47050.00	24
25	206000.00	8488.00	215800.00	196200.00	5306.00	51040.00	25
26	222900.00	11100.00	238000.00	211800.00	6637.00	55040.00	26
27	283000.00	16340.00	307200.00	254900.00	7521.00	64800.00	27
28	211200.00	16340.00	249700.00	185700.00	6188.00	60800.00	28
29	230800.00	11100.00	247100.00	189600.00	9295.00	57700.00	29



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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 151  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 09/13/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	8792.00	75020.00	-15580.00	90730.00	2576.00	91580.00	2
3	7437.00	72740.00	-9736.00	83990.00	2576.00	85420.00	3
4	8800.00	70460.00	-8384.00	85340.00	3456.00	83660.00	4
5	7435.00	66370.00	-4336.00	81300.00	5656.00	77050.00	5
6	7433.00	70010.00	1048.00	82200.00	6536.00	81460.00	6
7	3336.00	72280.00	2392.00	84440.00	3896.00	85860.00	7
8	3336.00	74100.00	5992.00	86230.00	3896.00	86740.00	8
9	8344.00	80920.00	-5240.00	100200.00	7416.00	93780.00	9
10	3336.00	77740.00	-1192.00	91620.00	1256.00	91140.00	10
11	5616.00	79100.00	-2552.00	97460.00	2136.00	90260.00	11
12	4704.00	80930.00	600.00	95220.00	2136.00	92900.00	12
13	7888.00	76830.00	-14670.00	87140.00	816.00	89820.00	13
14	7424.00	73650.00	-10630.00	89380.00	816.00	87180.00	14
15	6072.00	74100.00	-6136.00	89380.00	2136.00	84980.00	15
16	6520.00	72740.00	-6136.00	89380.00	4336.00	83660.00	16
17	4522.00	70010.00	-4792.00	83540.00	3448.00	79260.00	17
18	7888.00	81380.00	-7936.00	96560.00	5216.00	93340.00	18
19	7432.00	81830.00	-7936.00	98370.00	4776.00	92020.00	19
20	9704.00	82280.00	-14220.00	99260.00	808.00	98630.00	20
21	5608.00	71830.00	-14220.00	82190.00	-1832.00	85420.00	21
22	4710.00	43640.00	606.00	48510.00	5500.50	50640.00	22
23	3346.00	40460.00	606.00	46710.00	-2262.00	47990.00	23
24	2891.00	47280.00	2403.00	54800.00	-1381.00	55920.00	24
25	3346.00	53190.00	3750.00	60630.00	-1822.00	63400.00	25
26	4255.00	55920.00	2846.00	66020.00	5503.00	65610.00	26
27	1520.00	67740.00	3296.00	75460.00	-4472.00	78380.00	27
28	618.00	61370.00	5088.00	70960.00	-4472.00	71340.00	28
29	1073.00	60010.00	6890.00	67370.00	-4472.00	71340.00	29

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CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 151  
TGW 20800 TCR 9.7 AFT FLIGHT DATE 09/13/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	347600.00	10880.00	358400.00	299600.00	-2744.00	72470.00	2
3	242000.00	55030.00	247000.00	187000.00	5656.00	78220.00	3
4	212600.00	10240.00	256100.00	202300.00	-1408.00	79980.00	4
5	251600.00	9600.00	246300.00	242000.00	352.00	75570.00	5
6	243700.00	12800.00	245500.00	250900.00	3000.00	81750.00	6
7	322600.00	19200.00	345600.00	298300.00	8312.00	80870.00	7
8	347600.00	19840.00	348700.00	327700.00	10510.00	85730.00	8
9	313000.00	19830.00	358400.00	271400.00	16710.00	117500.00	9
10	293200.00	30710.00	371200.00	262500.00	2560.00	122800.00	10
11	316200.00	24310.00	340500.00	222800.00	14500.00	111800.00	11
12	340000.00	25000.00	340000.00	250000.00	8304.00	125100.00	12
13	230000.00	10000.00	240000.00	210000.00	-2296.00	83510.00	13
14	242600.00	10880.00	256100.00	231700.00	-1856.00	86610.00	14
15	245000.00	15000.00	270000.00	250000.00	2128.00	90590.00	15
16	313700.00	16630.00	330300.00	295700.00	4776.00	89700.00	16
17	302100.00	15350.00	317500.00	285500.00	3896.00	86170.00	17
18	311100.00	25590.00	341800.00	279100.00	6104.00	143200.00	18
19	325000.00	20000.00	340000.00	280000.00	17590.00	135200.00	19
20	320000.00	25000.00	340000.00	150000.00	7432.00	148900.00	20
21	325000.00	10240.00	259900.00	212600.00	-2736.00	78660.00	21
22	234300.00	6400.00	243300.00	224100.00	3457.00	29170.00	22
23	258600.00	19200.00	277800.00	236900.00	2573.00	29170.00	23
24	270000.00	10000.00	280000.00	260000.00	4340.00	39770.00	24
25	272700.00	7680.00	285500.00	263700.00	5224.00	44190.00	25
26	240000.00	15000.00	310000.00	280000.00	5666.00	50820.00	26
27	375000.00	20000.00	390000.00	290000.00	2568.00	87500.00	27
28	274600.00	17280.00	323900.00	257300.00	10520.00	87500.00	28
29	302800.00	23670.00	330300.00	272700.00	6102.00	63630.00	29

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 151  
TORGW 20800 TORG 9.7 AFT FLIGHT DATE 09/13/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-312.00	75530.00	-8097.00	67200.00	1840.00	66500.00	2
3	1016.00	81300.00	-8097.00	69890.00	6712.00	72260.00	3
4	3240.00	85300.00	-8097.00	73470.00	8040.00	75370.00	4
5	2352.00	79970.00	-8097.00	69890.00	7600.00	73150.00	5
6	1912.00	86630.00	-4520.00	76150.00	7152.00	80690.00	6
7	3680.00	82190.00	-488.00	71220.00	5384.00	75370.00	7
8	136.00	86630.00	1304.00	74810.00	944.00	78910.00	8
9	-12750.00	122600.00	5344.00	106600.00	-6144.00	113500.00	9
10	-10540.00	123100.00	-2272.00	116900.00	-11900.00	111300.00	10
11	-12750.00	114600.00	2656.00	114700.00	-4368.00	109100.00	11
12	-13650.00	121700.00	6240.00	120000.00	-15450.00	114800.00	12
13	-320.00	89740.00	-8096.00	76140.00	7600.00	79360.00	13
14	-1208.00	92410.00	-9881.00	75260.00	4944.00	82020.00	14
15	-4312.00	95510.00	-4064.00	80180.00	1832.00	86010.00	15
16	-4312.00	94630.00	-1384.00	78390.00	952.00	84230.00	16
17	-3872.00	89740.00	-3176.00	73020.00	-1264.00	80240.00	17
18	-10090.00	134200.00	-13470.00	120000.00	-11460.00	117000.00	18
19	-16750.00	118600.00	864.00	120900.00	-9688.00	109100.00	19
20	-18090.00	139500.00	-4512.00	122700.00	-20340.00	127700.00	20
21	-312.00	85300.00	-9889.00	70780.00	4496.00	75360.00	21
22	-751.50	28880.00	-1818.00	28670.00	5391.00	29260.00	22
23	-2529.00	28880.00	-922.00	28670.00	3618.00	28370.00	23
24	1026.00	38650.00	-1818.00	40320.00	6278.00	38130.00	24
25	1471.00	43540.00	-1370.00	44350.00	5834.00	43000.00	25
26	1026.00	51980.00	1318.00	47040.00	6721.00	50980.00	26
27	-11860.00	81750.00	-2272.00	83760.00	-7472.00	75810.00	27
28	-7424.00	82640.00	8920.00	81530.00	-2160.00	82020.00	28
29	-2535.00	64430.00	4006.00	58680.00	514.00	63400.00	29



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 151  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 09/13/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.80	265.30	264.40	1.02	1.09	.91	2
3	264.80	265.80	264.40	.92	1.03	.92	3
4	264.70	265.10	264.40	1.06	1.07	.96	4
5	265.00	265.30	264.90	.98	.99	.97	5
6	264.80	266.00	264.60	.94	1.08	.92	6
7	265.30	265.40	264.40	1.00	1.03	.94	7
8	265.30	265.60	265.10	.95	1.05	.89	8
9	265.30	266.20	263.70	1.05	1.29	.97	9
10	264.70	266.20	264.40	1.16	1.36	.89	10
11	265.70	267.80	264.30	1.08	1.34	.97	11
12	265.40	267.40	263.70	.94	1.37	.88	12
13	265.20	265.60	264.60	1.02	1.04	.97	13
14	265.20	265.40	265.10	1.00	1.02	.99	14
15	265.70	265.80	264.90	1.03	1.04	1.01	15
16	265.00	265.10	264.90	1.01	1.02	.99	16
17	264.80	265.10	264.60	.90	.94	.90	17
18	264.80	266.00	264.30	.95	1.21	.87	18
19	264.80	265.40	264.40	1.12	1.19	.90	19
20	271.30	271.80	263.70	1.19	1.31	.95	20
21	264.70	266.00	263.50	.99	1.02	.95	21
22	266.00	266.00	265.60	1.00	1.02	.98	22
23	265.00	265.10	264.60	1.00	1.01	.99	23
24	265.00	265.10	264.90	.99	1.02	.98	24
25	265.00	265.10	264.90	.99	1.02	.99	25
26	264.80	265.30	264.60	.99	1.03	.98	26
27	263.90	264.30	263.30	.95	1.06	.90	27
28	265.10	265.80	264.30	1.06	1.17	.99	28
29	265.30	265.60	264.10	1.06	1.19	1.00	29

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 151  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 09/13/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.19	1.11	-1.17	-2.44	-2.14	-7.81	2
3	-.36	.62	-.52	-5.14	-3.81	-5.31	3
4	-1.33	-.52	-1.49	-3.44	-3.23	-4.14	4
5	-.03	.30	-1.17	-4.81	-4.23	-5.23	5
6	1.27	1.44	-.03	-5.81	-4.39	-6.22	6
7	-.44	1.11	-.84	-6.56	-6.31	-7.81	7
8	-.60	.30	-1.17	-8.68	-7.39	-9.72	8
9	-15.01	7.95	-33.25	-4.93	-1.89	-8.06	9
10	1.52	33.02	-.19	-2.44	-.64	-5.97	10
11	-12.73	3.06	-40.90	-2.10	-.64	-5.48	11
12	19.02	36.93	1.92	-.81	2.94	-5.81	12
13	.38	.78	-.19	-3.89	-1.64	-4.31	13
14	-.36	.13	-.52	-3.93	-3.48	-4.31	14
15	-.36	-.19	-.84	-4.68	-4.39	-4.98	15
16	.62	1.11	.46	-6.93	-6.22	-7.14	16
17	-.11	.13	-1.17	-7.81	-6.72	-9.31	17
18	12.26	28.79	-2.31	-8.22	-.39	-9.47	18
19	-11.18	5.34	-30.48	-7.14	-4.81	-10.22	19
20	9.74	42.79	-.36	-1.19	.27	-5.31	20
21	-.36	-.19	-1.01	-4.10	-3.81	-4.64	21
22	-.03	.30	-.52	2.40	3.10	2.19	22
23	.87	1.11	.13	1.81	2.27	1.69	23
24	-.84	-.52	-1.01	-.48	.02	-.81	24
25	-.03	.46	-.36	-1.81	-1.56	-2.56	25
26	-.36	.46	-.52	-3.19	-2.64	-4.06	26
27	-.27	1.44	-1.49	-6.81	-3.64	-7.47	27
28	-18.19	5.83	-34.88	-4.52	.69	-6.31	28
29	2.33	29.44	-3.29	-1.10	.52	-3.81	29

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 161

TSGW 20800 TSCG 22.4 FWD FLIGHT DATE 09/30/77

EVENT	41200SDY	61200ALT	41200MAX	61200MIN	41160SDY	41160ALT	EVENT
2	183200.00	16610.00	201000.00	160200.00	-8528.00	74620.00	2
3	152500.00	10220.00	188300.00	135900.00	-9838.00	76880.00	3
4	174100.00	9584.00	190800.00	166500.00	-5368.00	78700.00	4
5	256000.00	16600.00	277700.00	238100.00	-1288.00	79140.00	5
6	294300.00	19160.00	323600.00	275100.00	2776.00	81400.00	6
7	325600.00	30020.00	364500.00	295600.00	4534.00	88650.00	7
8	322400.00	34490.00	359400.00	287900.00	968.00	90460.00	8
9	224700.00	30020.00	293000.00	-22470.00	-8978.00	74170.00	9



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FLIGHT LOADS

CH-4A FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 161  
TSGW 20800 TSCG 22.4 FWD FLIGHT DATE 09/30/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	5896.00	75820.00	-14740.00	86510.00	1328.00	90700.00	2
3	1856.00	78060.00	-14740.00	88060.00	-976.00	93010.00	3
4	5896.00	77610.00	-10100.00	91140.00	1328.00	92240.00	4
5	9933.00	75360.00	-2376.00	94230.00	9016.00	92230.00	5
6	9488.00	78510.00	3800.00	95780.00	13630.00	90700.00	6
7	9928.00	83450.00	9200.00	108900.00	25160.00	109900.00	7
8	10820.00	85240.00	2300.00	109700.00	15170.00	99920.00	8
9	6900.00	79500.00	-14000.00	86000.00	2800.00	89200.00	9

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 161  
TGW 20800 TCG 22.4 FWD FLIGHT DATE 09/30/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	250000.00	10000.00	240000.00	240000.00	-7344.00	43340.00	2
3	200000.00	5000.00	210000.00	180000.00	-5275.00	59680.00	3
4	200000.00	10000.00	210000.00	190000.00	-4488.00	68500.00	4
5	240000.00	10000.00	270000.00	240000.00	280.00	66120.00	5
6	290000.00	15000.00	300000.00	270000.00	772.00	64830.00	6
7	320000.00	25000.00	340000.00	300000.00	-1025.00	74630.00	7
8	320000.00	25000.00	340000.00	290000.00	1200.00	74800.00	8
9	290000.00	25000.00	240000.00	40000.00	2776.00	82870.00	9

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 161

TORGW 20800 TBCG 22.4 FWD FLIGHT DATE 09/30/77

EVENT	69170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	9917.00	41110.00	-6678.00	42240.00	4700.00	40100.00	2
3	3802.00	41800.00	-7520.00	53920.00	2450.00	53550.00	3
4	8525.00	75480.00	-5115.00	62580.00	7349.00	67850.00	4
5	5440.00	73280.00	482.00	61900.00	2252.00	67460.00	5
6	10000.00	70000.00	850.00	59150.00	680.00	67460.00	6
7	2760.00	80420.00	-2632.00	66630.00	-5600.00	73740.00	7
8	4000.00	77600.00	-2000.00	70000.00	-4000.00	74400.00	8
9	11700.00	86680.00	-6025.00	82030.00	10610.00	77390.00	9



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 161  
TOGW 20800 TOCG 22.4 FWD FLIGHT DATE 09/30/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	265.20	265.30	265.10	1.01	1.02	1.00	2
3	265.50	266.20	265.40	.99	1.03	.97	3
4	265.20	265.30	264.90	.98	1.03	.98	4
5	265.20	265.60	265.10	1.01	1.05	.96	5
6	265.00	265.10	264.90	1.03	1.04	.97	6
7	265.10	265.40	264.90	.99	1.07	.97	7
8	265.30	265.40	264.90	1.01	1.02	.97	8
9	267.80	268.90	261.60	.97	1.12	.85	9

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 161  
TCGW 20300 TCG 22.4 FWD FLIGHT DATE 09/30/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	-.44	.05	-.60	2.82	4.06	2.40	2
3	-.20	1.51	-.60	1.45	2.57	.99	3
4	1.11	1.35	.21	-.29	.16	-1.74	4
5	.21	1.19	-.11	-3.40	-1.58	-3.82	5
6	.54	1.19	-.44	-4.23	-3.24	-4.56	6
7	.62	1.19	-.28	-5.64	-4.23	-6.47	7
8	.94	1.68	.70	-6.14	-5.89	-6.56	8
9	-.52	.70	-2.72	6.76	9.20	-.67	9

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 162

TSGW 20800 TSCG 22.4 FWD FLIGHT DATE 10/07/77

EVENT	41200SDY	61200ALT	41200MAX	61200MIN	41160SDY	41160ALT	EVENT
2	320000.00	15000.00	350000.00	280000.00	0.	68000.00	2
3	340000.00	20000.00	340000.00	320000.00	0.	70000.00	3
4	320000.00	25000.00	350000.00	260000.00	0.	68000.00	4
5	240000.00	30000.00	320000.00	260000.00	0.	68000.00	5
6	290000.00	35000.00	320000.00	240000.00	-1640.00	227700.00	6



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 162

TGW 20800 TCG 22.4 FWD FLIGHT DATE 10/07/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	7096.00	80010.00	6216.00	99210.00	10550.00	95590.00	2
3	4184.00	81830.00	7792.00	100800.00	11340.00	96380.00	3
4	3912.00	88650.00	8568.00	106300.00	6640.00	104200.00	4
5	7088.00	90020.00	19600.00	104700.00	12130.00	108100.00	5
6	1408.00	232100.00	30000.00	130000.00	20000.00	125000.00	6

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 162

• TCGW 20800 TCG 22.4 FWD FLIGHT DATE 10/07/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	306300.00	20170.00	327700.00	272200.00	3376.00	69760.00	2
3	308800.00	26460.00	352900.00	278500.00	1038.00	75590.00	3
4	301800.00	33400.00	347900.00	252100.00	2912.00	79330.00	4
5	279800.00	35290.00	330200.00	244500.00	2464.00	71580.00	5
6	40000.00	30000.00	330000.00	240000.00	3368.00	76140.00	6

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 162

TB GW 20800 TB CG 22.4 FWD FLIGHT DATE 10/07/77

EVENT	A9170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-1304.00	74700.00	6243.00	63410.00	-8714.00	69690.00	2
3	-5272.00	80440.00	1600.00	72690.00	-14130.00	75100.00	3
4	-3064.00	81770.00	824.00	76550.00	-11040.00	79740.00	4
5	-2184.00	75580.00	3920.00	70370.00	-7944.00	73560.00	5
6	1792.00	78670.00	-3816.00	71910.00	576.00	77420.00	6



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 162  
TGW 20800 TCG 22.4 FWD FLIGHT DATE 10/07/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	264.70	265.40	264.40	.92	1.09	.87	2
3	264.80	265.40	264.60	.99	1.10	.83	3
4	264.60	265.60	264.30	1.00	1.18	.87	4
5	265.40	266.00	264.90	.97	1.14	.91	5
6	265.80	266.20	264.90	1.08	1.19	.99	6

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 162  
TCGW 20800 TCG 22.4 FWD FLIGHT DATE 10/07/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	.94	2.08	.61	-5.52	-4.02	-5.69	2
3	.61	2.24	-.21	-7.70	-4.61	-8.37	3
4	-.04	1.75	-.37	-6.36	-4.69	-7.61	4
5	1.02	1.92	.45	-6.11	-5.69	-8.62	5
6	-.04	.77	-.86	-5.11	-4.69	-7.45	6

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 163

TOWW 21500 TBCG 22.4 FWD FLIGHT DATE 10/04/77

EVENT	41200SDY	61200ALT	41200MAX	61200MIN	41160SDY	41160ALT	EVENT
1	242100.00	30510.00	272600.00	170000.00	49050.00	143000.00	1
2	223200.00	28560.00	251800.00	157000.00	-10820.00	85780.00	2
3	227800.00	38300.00	273900.00	163500.00	18220.00	130900.00	3
4	241400.00	25970.00	298500.00	190800.00	57980.00	153700.00	4
5	178900.00	23370.00	236200.00	94700.00	57530.00	170200.00	5
6	250000.00	10000.00	260000.00		-40080.00	188300.00	6
7	320000.00	20000.00	400000.00	200000.00	-544.00	99620.00	7
8	334900.00	22070.00	357000.00	305000.00	-96.00	84880.00	8
9	290700.00	38950.00	342700.00	247900.00	15540.00	96940.00	9
10	281000.00	42190.00	354400.00	236200.00	20010.00	102300.00	10
11	284800.00	40240.00	355700.00	245300.00	21340.00	101900.00	11
12	320000.00	30000.00	353100.00	290000.00	21350.00	109900.00	12
13	271900.00	14930.00	295900.00	257000.00	-1430.00	51370.00	13
14	223200.00	63620.00	314100.00	159600.00	-18410.00	56740.00	14
15	270600.00	17520.00	302400.00	246600.00	-6790.00	54950.00	15
16	258900.00	56470.00	323200.00	198600.00	-10810.00	53610.00	16
17	295900.00	33760.00	340100.00	231000.00	8840.00	85770.00	17
18	317400.00	20130.00	344000.00	293300.00	1240.00	79960.00	18
19	305700.00	22720.00	340100.00	273900.00	81660.00	146100.00	19
20	335500.00	24020.00	363400.00	297200.00	800.00	72370.00	20
21	299200.00	30510.00	340100.00	268700.00	5712.00	76380.00	21
22	276500.00	44140.00	380300.00	231000.00	15540.00	105900.00	22



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 163  
TBGW 21500 TBCG 22.4 FWD FLIGHT DATE 10/04/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
1	5712.00	89170.00	-14250.00	103800.00	160.00	106400.00	1
2	7528.00	85530.00	58130.00	157300.00	-624.00	104000.00	2
3	4344.00	104200.00	-20540.00	121100.00	-624.00	125900.00	3
4	3888.00	99180.00	-18180.00	117200.00	-3752.00	113700.00	4
5	7072.00	100500.00	-20000.00	160000.00	-8000.00	120000.00	5
6	-15660.00	115100.00	-15820.00	118000.00	2504.00	122800.00	6
7	-9760.00	99180.00	0.0	110000.00	-10010.00	110300.00	7
8	8896.00	78700.00	2280.00	98330.00	6424.00	93860.00	8
9	8896.00	102400.00	18010.00	121900.00	16580.00	121200.00	9
10	9352.00	103200.00	30000.00	130000.00	12670.00	131400.00	10
11	11180.00	108300.00	17220.00	129000.00	15020.00	132200.00	11
12	14360.00	118700.00	18790.00	140000.00	-123800.00	277300.00	12
13	9808.00	55950.00	-4012.00	59000.00	8768.00	66480.00	13
14	-15220.00	65520.00	-21540.00	69220.00	-31910.00	80570.00	14
15	-2928.00	67790.00	-52000.00	66080.00	-13920.00	84480.00	15
16	2990.00	57320.00	-15820.00	61370.00	-4525.00	68840.00	16
17	2072.00	92810.00	4992.00	101500.00	-3744.00	104000.00	17
18	10270.00	74610.00	0.0	95000.00	7984.00	89170.00	18
19	9813.00	67790.00	4632.00	84950.00	9544.00	79780.00	19
20	7082.00	69610.00	2272.00	87310.00	9552.00	84480.00	20
21	2984.00	78250.00	6208.00	92820.00	944.00	94640.00	21
22	15720.00	113700.00	13290.00	137700.00	19710.00	138400.00	22

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 163

TORGW 21500 TBCG 22.4 FWD FLIGHT DATE 10/04/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
1	251000.00	14200.00	274200.00	182600.00	1048.00	85720.00	1
2	233600.00	12270.00	245800.00	187700.00	-4912.00	79760.00	2
3	217400.00	20660.00	309100.00	185200.00	-2616.00	91220.00	3
4	278100.00	19370.00	307800.00	211000.00	-328.00	94440.00	4
5	211600.00	20020.00	276800.00	170900.00	1048.00	93060.00	5
6	241300.00	20020.00	279400.00	186400.00	1512.00	91690.00	6
7	266500.00	41330.00	364600.00	217400.00	1968.00	105000.00	7
8	314900.00	22600.00	328800.00	291000.00	1968.00	73810.00	8
9	304600.00	32930.00	327500.00	248400.00	6088.00	83430.00	9
10	293000.00	36810.00	342700.00	249700.00	17550.00	93060.00	10
11	296200.00	36160.00	345300.00	252300.00	20300.00	89390.00	11
12	293000.00	32930.00	342700.00	248400.00	17090.00	93520.00	12
13	258700.00	11620.00	272900.00	243200.00	-10860.00	37130.00	13
14	243300.00	23890.00	294900.00	239400.00	-9946.00	40800.00	14
15	267100.00	17430.00	292300.00	238100.00	-10860.00	43550.00	15
16	272300.00	52300.00	325900.00	220000.00	-5362.00	36220.00	16
17	286500.00	30340.00	323300.00	225200.00	11140.00	61890.00	17
18	300700.00	21300.00	322000.00	274200.00	128.00	67390.00	18
19	306500.00	20660.00	323600.00	276800.00	-777.00	47220.00	19
20	323300.00	23250.00	359500.00	297500.00	598.00	54090.00	20
21	313000.00	29700.00	349100.00	280700.00	598.50	53180.00	21
22	317500.00	38100.00	340800.00	267800.00	11600.00	73350.00	22

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 163  
TOGW 21500 TBCG 22.4 FWD FLIGHT DATE 10/04/77

EVENT	49170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
1	408.00	91690.00	-5712.00	74480.00	2480.00	81310.00	1
2	856.00	84040.00	-6495.00	70560.00	9448.00	82090.00	2
3	-1384.00	98870.00	-4928.00	86240.00	17200.00	94480.00	3
4	-936.00	93930.00	2128.00	79180.00	936.00	85960.00	4
5	-6336.00	97520.00	-224.00	81540.00	-5264.00	87500.00	5
6	-7680.00	95280.00	-224.00	86240.00	-10680.00	86730.00	6
7	-9928.00	109200.00	12310.00	105000.00	-12230.00	105300.00	7
8	-4984.00	77300.00	2133.00	66640.00	-9907.00	70480.00	8
9	4008.00	88980.00	1344.00	76830.00	936.00	85960.00	9
10	2208.00	106100.00	10750.00	83100.00	2480.00	95250.00	10
11	4904.00	103400.00	13100.00	79180.00	14870.00	99900.00	11
12	4000.00	106100.00	10750.00	83100.00	3256.00	94470.00	12
13	-11720.00	33710.00	-17470.00	31360.00	-16090.00	31750.00	13
14	-13520.00	39100.00	2133.00	35280.00	-15320.00	35620.00	14
15	-22050.00	37750.00	-20600.00	37630.00	-26160.00	34070.00	15
16	6709.00	33260.00	-3354.00	34490.00	1717.00	30980.00	16
17	4460.00	67860.00	6054.00	58010.00	4814.00	57310.00	17
18	-2736.00	73250.00	6053.00	61150.00	-1392.00	68140.00	18
19	-482.00	51230.00	-1003.00	43120.00	-2930.00	49560.00	19
20	-3179.00	56630.00	-2570.00	50960.00	-6028.00	54210.00	20
21	-2729.00	52580.00	-2570.00	50960.00	-6802.00	51880.00	21
22	4456.00	80440.00	5264.00	71340.00	7904.00	75890.00	22



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 163  
TGW 21500 TCG 22.4 FWD FLIGHT DATE 10/04/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
1	264.10	265.80	263.50	1.06	1.24	.99	1
2	265.70	266.40	263.90	1.18	1.30	.97	2
3	265.10	267.00	263.30	1.19	1.48	.97	3
4	264.50	266.60	263.30	1.12	1.41	.98	4
5	266.10	267.80	261.60	1.48	1.55	1.04	5
6	265.90	267.20	264.10	1.35	1.53	.98	6
7	266.60	268.40	264.60	1.11	1.48	.87	7
8	265.10	265.30	264.60	1.01	1.05	.99	8
9	265.60	266.20	264.30	1.11	1.24	1.01	9
10	264.80	266.00	264.30	1.24	1.28	.88	10
11	265.10	265.80	264.30	1.12	1.27	.90	11
12	265.80	266.00	264.60	1.07	1.31	.89	12
13	264.80	265.60	264.60	.98	1.00	.96	13
14	264.70	265.30	264.30	1.01	1.03	.96	14
15	264.70	265.30	264.30	1.01	1.03	.98	15
16	265.00	265.60	264.40	1.00	1.04	.98	16
17	264.30	265.60	263.90	.98	1.05	.94	17
18	264.80	265.30	264.60	1.01	1.04	.95	18
19	265.10	265.30	264.90	.99	1.08	.95	19
20	264.80	265.30	264.60	1.00	1.06	.94	20
21	264.70	265.80	264.40	1.04	1.12	.97	21
22	265.50	266.20	264.60	1.27	1.37	.71	22

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 163

TGGW 21500 TCCG 22.4 FWD FLIGHT DATE 10/04/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
1	-5.43	9.29	-37.41	-1.11	.23	-3.11	1
2	10.51	29.96	-4.86	-1.36	1.98	-4.36	2
3	-27.16	6.04	-44.25	1.65	2.65	-3.45	3
4	19.63	43.63	-.80	4.40	5.49	-3.28	4
5	-26.26	1.81	-54.98	-2.86	1.48	-5.95	5
6	28.25	57.95	.18	1.56	5.32	-4.53	6
7	-.14	.51	-.63	-4.74	6.49	-7.62	7
8	-.31	.99	-.63	-5.49	-5.03	-6.78	8
9	.99	2.13	.02	-5.24	1.31	-8.79	9
10	1.08	1.81	.02	-10.37	-2.03	-11.38	10
11	.91	1.65	.18	-3.53	-2.28	-11.46	11
12	.26	1.65	.02	-5.41	-1.19	-12.55	12
13	-.80	.34	-1.12	2.73	4.23	2.15	13
14	-.47	.67	-2.59	2.94	3.31	2.15	14
15	-.47	.67	-2.42	3.06	4.15	2.65	15
16	-.06	.34	-.63	3.61	4.40	1.40	16
17	.18	.51	-.63	3.40	3.90	2.15	17
18	.10	.67	-.47	-6.95	-4.95	-7.29	18
19	-.39	.02	-.63	-3.90	-3.28	-4.70	19
20	.26	.83	-.31	-4.99	-4.03	-5.45	20
21	-.31	.67	-1.94	-4.16	-3.78	-7.20	21
22	-1.53	.18	-2.91	-8.00	-2.53	-11.88	22

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 166

TGWH 20800 TBCG 9.7 AFT FLIGHT DATE 10/06/77

EVENT	A1200SDY	61200ALT	A1200MAX	61200MIN	41160SDY	41160ALT	EVENT
2	304300.00	18700.00	325000.00	283700.00	2960.00	77170.00	2
3	3969.00	46410.00	72290.00	-53400.00	4767.00	60020.00	3
4	47800.00	54140.00	118700.00	-53400.00	13340.00	76710.00	4
5	247000.00	13540.00	241800.00	224400.00	2504.00	69500.00	5
6	272800.00	17400.00	291500.00	250200.00	3400.00	72200.00	6
7	309500.00	18050.00	331400.00	287600.00	3400.00	74010.00	7
8	293400.00	23850.00	332700.00	264400.00	7016.00	77620.00	8
9	245700.00	16120.00	277300.00	227000.00	8369.00	62720.00	9
10	300500.00	19340.00	322400.00	277300.00	6567.00	68140.00	10
11	291500.00	23200.00	325000.00	264400.00	11990.00	68140.00	11



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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 166  
TGW 20800 TBCG 9.7 AFT FLIGHT DATE 10/06/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	3552.00	75470.00	3576.00	89720.00	5136.00	86850.00	2
3	-4718.00	59840.00	4368.00	79490.00	-7272.00	74440.00	3
4	-472.00	77700.00	16170.00	100700.00	2808.00	98490.00	4
5	7126.00	69210.00	2000.00	83420.00	5136.00	80640.00	5
6	7130.00	71890.00	1216.00	87360.00	5912.00	84520.00	6
7	6680.00	72340.00	2000.00	86580.00	7464.00	84520.00	7
8	5784.00	76810.00	5936.00	92080.00	4360.00	90730.00	8
9	4003.00	64300.00	5936.00	79490.00	3584.00	79090.00	9
10	6238.00	68320.00	5936.00	82640.00	5912.00	82970.00	10
11	3992.00	71450.00	11440.00	83420.00	4360.00	86070.00	11

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 166

TSGN 20800 TSCG 9.7 AFT FLIGHT DATE 10/06/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	336100.00	41630.00	379100.00	293200.00	480.00	91070.00	2
3	21290.00	45530.00	75920.00	-56120.00	23590.00	71580.00	3
4	33640.00	63090.00	96740.00	-56120.00	2288.00	85630.00	4
5	291900.00	19520.00	316600.00	271100.00	4560.00	77020.00	5
6	317300.00	26660.00	343900.00	285400.00	5912.00	82010.00	6
7	350000.00	25000.00	380000.00	330000.00	2744.00	85180.00	7
8	360000.00	35000.00	395000.00	300000.00	11360.00	98320.00	8
9	316600.00	22120.00	342600.00	286700.00	6831.00	57540.00	9
10	357600.00	27970.00	393400.00	329600.00	3655.00	65240.00	10
11	355000.00	31880.00	398600.00	317900.00	3200.00	67500.00	11

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FLIGHT LOADS

CH-44 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 166  
TSGW 20800 TSCG 9.7 AFT FLIGHT DATE 10/06/77

EVENT	49170SDY	49170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-3880.00	91060.00	-3480.00	81880.00	-10970.00	83930.00	2
3	4600.00	91510.00	-1920.00	74080.00	7512.00	94710.00	3
4	-312.00	90170.00	424.00	88900.00	-184.00	83930.00	4
5	2376.00	82140.00	-1136.00	68620.00	584.00	77000.00	5
6	136.00	86150.00	-360.00	72520.00	-1728.00	79310.00	6
7	-2984.00	86600.00	-3472.00	77200.00	-6344.00	79300.00	7
8	-1200.00	106200.00	2760.00	88120.00	3664.00	92400.00	8
9	1931.00	60260.00	1211.00	52250.00	2134.00	56980.00	9
10	145.00	64730.00	-1908.00	61600.00	-1717.00	60830.00	10
11	1926.00	66510.00	-5032.00	64730.00	-10190.00	69300.00	11



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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 166  
TGW 20800 TCG 9.7 AFT FLIGHT DATE 10/06/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	265.10	265.30	264.90	.96	1.02	.95	2
3	295.60	302.00	266.80	1.86	2.35	.78	3
4	298.20	303.30	271.90	2.02	2.48	.82	4
5	265.20	265.30	265.10	1.03	1.06	1.01	5
6	265.00	265.40	264.90	1.04	1.07	1.00	6
7	265.20	265.30	265.10	.99	1.01	.93	7
8	265.30	265.40	264.40	.98	1.09	.94	8
9	265.00	265.30	264.90	1.02	1.07	.93	9
10	265.20	265.30	265.10	.98	1.02	.97	10
11	265.10	265.30	264.90	.95	1.01	.93	11

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 166

TGW 20800 TMC 9.7 AFT FLIGHT DATE 10/06/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	.08	.48	-.17	-6.56	-6.02	-7.69	2
3	.40	1.46	-1.80	2.06	10.31	-1.27	3
4	-.17	3.74	-.82	7.48	10.31	-1.19	4
5	-1.06	-.17	-1.31	-2.65	-2.02	-4.35	5
6	-.49	.16	-.82	-5.31	-4.77	-6.52	6
7	-1.96	-1.31	-2.29	-7.98	-6.85	-8.19	7
8	.16	1.14	-.00	-8.31	-6.94	-8.60	8
9	.08	.48	-.98	-3.35	-3.02	-5.27	9
10	-.90	-.17	-1.80	-4.52	-3.85	-5.35	10
11	.65	.81	-.82	-6.39	-5.94	-7.19	11

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 167

TGGW 25000 TCG 4.35 FWD FLIGHT DATE 10/06/77

EVENT	41200SDY	61200ALT	41200MAX	61200MIN	41160SDY	41160ALT	EVENT
4	211600.00	43840.00	345000.00	167700.00	-1199.00	56840.00	4
5	307600.00	19980.00	330200.00	265700.00	-752.00	87070.00	5
6	323700.00	55450.00	406300.00	219300.00	-12030.00	113700.00	6
7	354700.00	65760.00	434600.00	215400.00	-16090.00	123200.00	7
8	367600.00	58020.00	446900.00	247700.00	-12030.00	129900.00	8
9	301200.00	23860.00	325000.00	170300.00	-2560.00	93380.00	9
10	295400.00	77370.00	410100.00	69730.00	18650.00	141700.00	10
11	149700.00	25790.00	202500.00	82620.00	-9328.00	97440.00	11
12	144500.00	17410.00	185800.00	98100.00	-11130.00	95640.00	12
13	187100.00	15470.00	218000.00	123900.00	-4360.00	90680.00	13
15	-29230.00	24180.00	-2477.00	-53410.00	606.00	21650.00	15



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 167  
TAGW 25000 TBCG 4.35 FWD FLIGHT DATE 10/06/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
4	33030.00	62940.00	-414.00	65310.00	-8842.00	58970.00	4
5	4448.00	84370.00	-6720.00	99940.00	2792.00	95420.00	5
6	-1800.00	108500.00	-19310.00	134600.00	-7288.00	125700.00	6
7	880.00	121900.00	-18520.00	141600.00	-9616.00	145100.00	7
8	-5368.00	121900.00	-12220.00	149500.00	-11170.00	143500.00	8
9	1328.00	88380.00	-7504.00	108600.00	-4192.00	100800.00	9
10	-18320.00	157100.00	16100.00	166800.00	-5744.00	169100.00	10
11	11140.00	96420.00	-20100.00	114900.00	1240.00	117100.00	11
12	11590.00	96870.00	-22460.00	112500.00	2792.00	117100.00	12
13	7576.00	90170.00	-18520.00	103900.00	-3416.00	106300.00	13
15	-6.00	20980.00	-6709.00	22820.00	-11160.00	22500.00	15

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 167  
TGGW 25000 TBCG 4.35 FWD FLIGHT DATE 10/06/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
4	323000.00	41630.00	453100.00	144800.00	-4976.00	36700.00	4
5	351600.00	27320.00	379000.00	319100.00	15860.00	112800.00	5
6	430000.00	55000.00	480000.00	270000.00	45760.00	175300.00	6
7	424500.00	85220.00	528600.00	239700.00	26740.00	190700.00	7
8	447300.00	67000.00	514300.00	276200.00	51650.00	173100.00	8
9	322400.00	34480.00	356800.00	263200.00	16760.00	150000.00	9
10	402400.00	124900.00	606700.00	94030.00	10870.00	221100.00	10
11	235000.00	18000.00	275000.00	190000.00	-10420.00	110100.00	11
12	215700.00	44880.00	290500.00	170800.00	-448.00	101900.00	12
13	211100.00	55940.00	289200.00	155200.00	-904.00	95140.00	13
15	-23390.00	32850.00	12070.00	-56240.00	-4523.00	9968.00	15

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 167  
TGW 25000 TBCG 4.35 FWD FLIGHT DATE 10/06/77

EVENT	A9170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
4	2326.00	40210.00	447.00	37430.00	-4828.00	37730.00	4
5	-11090.00	114400.00	17590.00	110700.00	-13300.00	106300.00	5
6	-17340.00	149200.00	9792.00	143500.00	-27940.00	133200.00	6
7	-18020.00	208000.00	44100.00	171500.00	-17150.00	179400.00	7
8	-7512.00	151000.00	33970.00	152000.00	-16380.00	140100.00	8
9	-21820.00	146600.00	-2680.00	129400.00	-8688.00	134000.00	9
10	2096.00	228100.00	28510.00	219900.00	18260.00	221000.00	10
11	-4832.00	118800.00	-6576.00	102100.00	-3296.00	108600.00	11
12	3216.00	102800.00	440.00	88890.00	5176.00	92410.00	12
13	1424.00	96510.00	-8144.00	81870.00	4400.00	83940.00	13
15	2326.00	10720.00	-7351.00	9357.00	9804.00	10780.00	15



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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 167  
TGW 25000 TCG 4.35 FWD FLIGHT DATE 10/06/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
4	266.60	270.40	259.00	1.04	1.20	.89	4
5	264.80	265.40	264.40	1.00	1.06	.92	5
6	264.10	270.60	262.00	1.29	1.47	.91	6
7	264.80	273.00	259.20	1.31	1.63	.85	7
8	263.30	270.90	258.40	1.31	1.68	.93	8
9	265.20	267.00	264.30	.90	1.25	.77	9
10	266.20	281.40	263.70	1.47	1.78	.69	10
11	267.70	268.90	264.30	1.28	1.36	.96	11
12	265.30	266.60	264.10	1.14	1.27	.97	12
13	264.80	267.00	263.90	1.02	1.21	.98	13
15	296.20	353.30	238.50	.99	1.01	.98	15

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 167  
TGGW 25000 TDCG 4.35 FWD FLIGHT DATE 10/06/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
4	-.49	.97	-.98	6.06	8.56	1.81	4
5	1.22	1.62	.48	-2.98	-2.10	-6.60	5
6	1.14	1.79	.81	-3.73	-2.10	-5.02	6
7	.48	1.46	-.49	-.73	.64	-5.19	7
8	1.62	2.28	-.82	-4.73	-2.02	-5.60	8
9	1.14	2.11	-.49	-2.10	-1.35	-13.68	9
10	.73	1.79	-.82	-5.40	5.31	-13.35	10
11	12.13	44.15	-2.61	-3.31	3.48	-5.02	11
12	-15.00	.81	-45.30	1.39	3.06	-3.69	12
13	12.78	45.94	-4.73	-1.77	-.44	-4.52	13
15	-.25	-.00	-.49	-1.10	-.11	-1.52	15

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FLIGHT LOADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 177  
TCGW 20800 TSCG 9.7 AFT FLIGHT DATE 10/20/77

EVENT	41200SDY	61200ALT	41200MAX	61200MIN	41160SDY	41160ALT	EVENT
2	76260.00	5176.00	84030.00	49090.00	-979.50	19400.00	2
3	220600.00	12300.00	274200.00	198000.00	6680.00	76680.00	3
4	240100.00	18130.00	304100.00	236800.00	3976.00	77580.00	4
5	307300.00	20060.00	320000.00	275600.00	1720.00	77130.00	5
6	288600.00	18130.00	327400.00	269100.00	2624.00	76220.00	6
7	228400.00	20060.00	248400.00	143600.00	368.00	77580.00	7
8	219300.00	26540.00	279500.00	172000.00	4424.00	84340.00	8
9	205700.00	19420.00	271700.00	177200.00	5784.00	83900.00	9
10	197900.00	15530.00	222500.00	175900.00	4424.00	77130.00	10
11	284000.00	18770.00	305400.00	247100.00	3072.00	77580.00	11
12	292400.00	19420.00	317000.00	262700.00	2168.00	78490.00	12
13	280100.00	25250.00	325200.00	238100.00	5328.00	79840.00	13
14	278200.00	22010.00	310600.00	229000.00	4424.00	78940.00	14
15	-24700.00	5178.00	-14340.00	-31170.00	-77.50	60890.00	15
16	-22110.00	9061.00	-1398.00	-48000.00	3528.00	81640.00	16
17	-43470.00	8414.00	19310.00	-52530.00	1720.00	78940.00	17
18	80150.00	16830.00	132200.00	-52530.00	6232.00	83450.00	18
19	253000.00	21360.00	287300.00	220000.00	3520.00	75330.00	19
20	300900.00	23940.00	342900.00	269100.00	816.00	77140.00	20
21	274300.00	22660.00	340300.00	247100.00	7136.00	80740.00	21
22	310600.00	28480.00	344200.00	258800.00	4880.00	75780.00	22
23	240500.00	35600.00	326400.00	218700.00	2624.00	84350.00	23
24	244600.00	20710.00	278200.00	220000.00	5780.00	71260.00	24
25	308600.00	23950.00	342900.00	267800.00	2616.00	81640.00	25
26	302800.00	29780.00	329000.00	264000.00	9384.00	79380.00	26
27	248300.00	29130.00	320000.00	216100.00	1272.00	85700.00	27
28	218700.00	20700.00	239400.00	165600.00	5776.00	84800.00	28
29	208300.00	24590.00	249700.00	159100.00	6224.00	78030.00	29
30	188900.00	14240.00	226400.00	137100.00	11190.00	86600.00	30
31	147500.00	15540.00	213500.00	128000.00	1720.00	78940.00	31
32	129300.00	22010.00	203100.00	64620.00	4880.00	78480.00	32
33	148100.00	27830.00	140200.00	84030.00	8488.00	81190.00	33
34	235500.00	29780.00	324800.00	192800.00	6680.00	82090.00	34
35	235500.00	24590.00	320000.00	204400.00	-992.00	87060.00	35
36	324800.00	62140.00	418000.00	213500.00	12540.00	86140.00	36
37	288600.00	20710.00	320900.00	251000.00	6232.00	77130.00	37
38	297600.00	20710.00	326400.00	276900.00	2168.00	77580.00	38
39	288600.00	36240.00	320000.00	226400.00	4880.00	89310.00	39
40	266600.00	19420.00	298900.00	226400.00	3072.00	73070.00	40
41	303400.00	21360.00	327400.00	267800.00	6224.00	73520.00	41
42	280800.00	28470.00	328700.00	248400.00	816.00	78930.00	42
43	247000.00	29130.00	323900.00	226400.00	-1440.00	85700.00	43
44	241300.00	29130.00	288600.00	191500.00	-4144.00	91120.00	44
45	172200.00	23300.00	182400.00	16720.00	3072.00	111900.00	45
46	-9813.00	3237.00	-3987.00	-14340.00	-979.50	15790.00	46



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 177  
TCGW 20800 TCCG 9.7 AFT FLIGHT DATE 10/20/77

EVENT	41170SDY	41170ALT	41870SDY	41870ALT	41880SDY	41880ALT	EVENT
2	-4659.00	17220.00	-7599.00	20740.00	-2510.00	24310.00	2
3	-1944.00	79770.00	-3616.00	91730.00	10820.00	86270.00	3
4	776.00	78860.00	1968.00	90930.00	4544.00	87840.00	4
5	-136.00	78860.00	-2024.00	88540.00	3760.00	85490.00	5
6	1224.00	78410.00	2760.00	88540.00	4544.00	86270.00	6
7	8024.00	74330.00	11540.00	87730.00	-944.00	90190.00	7
8	-1040.00	86110.00	-1224.00	98900.00	9248.00	94110.00	8
9	-1944.00	88820.00	-3624.00	102900.00	8464.00	93330.00	9
10	-2856.00	79770.00	-2824.00	92520.00	7680.00	86270.00	10
11	320.00	77500.00	368.00	89330.00	6896.00	88620.00	11
12	768.00	80670.00	1968.00	90930.00	5328.00	87060.00	12
13	-584.00	80220.00	-424.00	91720.00	11600.00	91760.00	13
14	768.00	80670.00	1968.00	90930.00	5328.00	93330.00	14
15	-4206.00	55740.00	-6807.00	67800.00	-5656.00	71370.00	15
16	2136.00	82940.00	-4416.00	90930.00	2976.00	90980.00	16
17	-9200.00	76140.00	-16380.00	86940.00	-5648.00	94900.00	17
18	-7384.00	87020.00	-17180.00	97300.00	-944.00	101200.00	18
19	-584.00	74780.00	-424.00	86940.00	6112.00	86270.00	19
20	3488.00	77950.00	6752.00	90930.00	6896.00	88620.00	20
21	1224.00	80220.00	376.00	92520.00	11600.00	93330.00	21
22	3488.00	77040.00	3560.00	89340.00	10820.00	89410.00	22
23	9840.00	82480.00	13930.00	94920.00	1408.00	98820.00	23
24	7578.00	70250.00	3560.00	86140.00	8464.00	83920.00	24
25	4856.00	80220.00	-432.00	96510.00	4544.00	94110.00	25
26	1680.00	76140.00	2760.00	93320.00	21010.00	94900.00	26
27	14820.00	79310.00	18710.00	96500.00	6112.00	103500.00	27
28	-11010.00	85200.00	-13980.00	100500.00	2976.00	102000.00	28
29	768.00	80670.00	-3616.00	91730.00	5328.00	94900.00	29
30	-4208.00	89280.00	-10790.00	103700.00	5328.00	101200.00	30
31	-11460.00	80220.00	-13980.00	95710.00	-1728.00	95680.00	31
32	1224.00	81130.00	-7608.00	94120.00	8464.00	94900.00	32
33	1680.00	83390.00	-9200.00	95710.00	6112.00	98820.00	33
34	10740.00	83380.00	15530.00	98100.00	2976.00	95680.00	34
35	4664.00	83850.00	8344.00	97300.00	3760.00	101200.00	35
36	-9192.00	87020.00	-14780.00	104500.00	18660.00	102000.00	36
37	4856.00	77500.00	5152.00	90930.00	11600.00	90190.00	37
38	3944.00	76580.00	-2024.00	93320.00	10820.00	89410.00	38
39	1680.00	85200.00	-424.00	102900.00	10820.00	105100.00	39
40	4400.00	73420.00	8344.00	86140.00	9248.00	84700.00	40
41	2584.00	74330.00	5152.00	86140.00	9248.00	84700.00	41
42	5760.00	78400.00	11540.00	90930.00	3760.00	91760.00	42
43	11650.00	78860.00	13130.00	94120.00	1408.00	102000.00	43
44	8480.00	87470.00	12330.00	102900.00	-168.00	111400.00	44
45	21140.00	111900.00	29880.00	118800.00	7680.00	120800.00	45
46	779.50	15410.00	-3611.00	16750.00	-4862.00	17250.00	46

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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 177

TGW 20800 TSCR 9.7 AFT FLIGHT DATE 10/20/77

EVENT	49200SDY	49200ALT	49200MAX	49200MIN	49160SDY	49160ALT	EVENT
2	71050.00	6034.00	86460.00	50270.00	-2883.00	14030.00	2
3	273500.00	20790.00	295700.00	250100.00	4808.00	100500.00	3
4	375000.00	17000.00	400000.00	360000.00	11140.00	118600.00	4
5	348800.00	26150.00	396300.00	335900.00	10240.00	112300.00	5
6	369400.00	28160.00	401600.00	327900.00	11600.00	117200.00	6
7	300000.00	25000.00	320000.00	180000.00	9336.00	106800.00	7
8	230000.00	15000.00	270000.00	230000.00	22910.00	163000.00	8
9	325000.00	20000.00	349300.00	101200.00	19740.00	139900.00	9
10	270200.00	21460.00	294300.00	231300.00	15220.00	120900.00	10
11	351300.00	32860.00	384200.00	295700.00	7072.00	115400.00	11
12	352700.00	44920.00	400300.00	307700.00	7976.00	116300.00	12
13	380000.00	35000.00	421100.00	320000.00	-4256.00	127700.00	13
14	372800.00	39560.00	412300.00	278200.00	-5608.00	117300.00	14
15	2661.00	8717.00	15400.00	-7397.00	-21450.00	64290.00	15
16	3332.00	13410.00	32840.00	-24830.00	-15110.00	71530.00	16
17	30000.00	11000.00	47590.00	-10000.00	-13300.00	74250.00	17
18	30000.00	10000.00	223200.00		-6064.00	87820.00	18
19	310000.00	15000.00	346600.00	290000.00	3896.00	85110.00	19
20	372100.00	33520.00	405600.00	315800.00	9328.00	110500.00	20
21	337200.00	42910.00	423100.00	294300.00	2536.00	129900.00	21
22	344100.00	41570.00	405600.00	306400.00	11590.00	112700.00	22
23	370000.00	30000.00	396300.00	250000.00	13860.00	111400.00	23
24	310000.00	15000.00	329200.00	270000.00	4808.00	79670.00	24
25	327200.00	52980.00	405600.00	274200.00	5264.00	115400.00	25
26	337200.00	41580.00	389600.00	295700.00	2088.00	95060.00	26
27	320000.00	35000.00	374800.00	255000.00	14770.00	107700.00	27
28	300000.00	20000.00	314400.00	230000.00	21560.00	136300.00	28
29	215900.00	52970.00	293000.00	162900.00	4800.00	105900.00	29
30	275000.00	15000.00	301000.00	220000.00	11140.00	129500.00	30
31	244000.00	24810.00	271500.00	187000.00	6160.00	106400.00	31
32	219900.00	22130.00	294300.00	195100.00	6160.00	98240.00	32
33	280000.00	15000.00	298400.00	200000.00	12500.00	129000.00	33
34	304400.00	52970.00	392200.00	232600.00	43280.00	161600.00	34
35	290000.00	15000.00	382800.00	230000.00	17940.00	155300.00	35
36	229300.00	85160.00	495500.00	144100.00	7072.00	111800.00	36
37	350000.00	20000.00	373500.00	280000.00	10240.00	95070.00	37
38	360000.00	25000.00	390900.00	330000.00	4808.00	93260.00	38
39	329900.00	41580.00	392200.00	262100.00	10240.00	115000.00	39
40	320000.00	25000.00	383300.00	270000.00	11590.00	94620.00	40
41	325200.00	42910.00	389600.00	282300.00	280.00	88730.00	41
42	308400.00	58340.00	381500.00	250100.00	16580.00	96880.00	42
43	322600.00	48950.00	381500.00	278200.00	16130.00	120000.00	43
44	293700.00	38220.00	349300.00	227300.00	28340.00	137600.00	44
45	300000.00	20000.00	342600.00	110000.00	-4704.00	75600.00	45
46	-31540.00	29500.00	650.00	-61040.00	-3336.00	9960.00	46



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CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 177  
TGW 20800 TCR 9.7 AFT FLIGHT DATE 10/20/77

EVENT	69170SDY	69170ALT	49230SDY	49230ALT	49240SDY	49240ALT	EVENT
2	-831.50	14260.00	-4793.00	19480.00	1212.00	17270.00	2
3	-9312.00	103000.00	3776.00	88820.00	-12140.00	94960.00	3
4	-15990.00	113200.00	15460.00	111400.00	-23130.00	105900.00	4
5	-17330.00	108300.00	17020.00	108300.00	-24700.00	99670.00	5
6	-9304.00	110100.00	20140.00	113000.00	-27050.00	102000.00	6
7	-3512.00	109700.00	10780.00	105200.00	1992.00	102800.00	7
8	-6192.00	154200.00	4552.00	128600.00	-16060.00	122400.00	8
9	-11980.00	124400.00	7664.00	127000.00	-15270.00	116900.00	9
10	-15550.00	114600.00	14670.00	109100.00	-16060.00	109900.00	10
11	-14890.00	114100.00	9224.00	113000.00	-22340.00	108300.00	11
12	-12870.00	113700.00	13900.00	111400.00	-25480.00	105200.00	12
13	-8416.00	133300.00	1432.00	123900.00	-16840.00	121600.00	13
14	-2624.00	122100.00	656.00	120000.00	-1936.00	106700.00	14
15	8528.00	69980.00	-28950.00	68570.00	12190.00	72190.00	15
16	11650.00	67760.00	-23490.00	72460.00	15340.00	70630.00	16
17	12990.00	69090.00	-18820.00	75580.00	14550.00	72980.00	17
18	3176.00	94060.00	-11810.00	91940.00	12180.00	87900.00	18
19	-3512.00	90040.00	-120.00	77130.00	-7432.00	83980.00	19
20	-11980.00	112800.00	13900.00	102100.00	-18420.00	107500.00	20
21	-19560.00	126600.00	656.00	120000.00	-27050.00	117700.00	21
22	-13760.00	111900.00	10780.00	102100.00	-18420.00	104400.00	22
23	-5296.00	115900.00	14680.00	102800.00	-5072.00	108300.00	23
24	3168.00	83360.00	4544.00	70900.00	-2720.00	77700.00	24
25	-12420.00	116800.00	17790.00	106000.00	-13710.00	110700.00	25
26	-1728.00	92720.00	-904.00	90380.00	-5080.00	86330.00	26
27	-1288.00	113700.00	10780.00	97390.00	-1936.00	102000.00	27
28	-15550.00	141300.00	19350.00	115300.00	2776.00	116200.00	28
29	48.00	105200.00	3776.00	91940.00	416.00	91820.00	29
30	-10200.00	135100.00	10780.00	111400.00	1200.00	114600.00	30
31	-6184.00	109700.00	-5576.00	98170.00	-1152.00	96530.00	31
32	-8856.00	94500.00	3768.00	82580.00	2768.00	78480.00	32
33	8968.00	117700.00	8440.00	115300.00	9832.00	102800.00	33
34	-6184.00	174700.00	2992.00	139500.00	14550.00	151500.00	34
35	-16440.00	144900.00	8440.00	146500.00	-2720.00	123200.00	35
36	-15550.00	112800.00	7672.00	100500.00	-22340.00	103600.00	36
37	-2176.00	102100.00	6888.00	84140.00	-5856.00	94960.00	37
38	-2176.00	91380.00	656.00	84140.00	-7432.00	83980.00	38
39	2280.00	122600.00	14680.00	107500.00	2768.00	111400.00	39
40	-3064.00	97620.00	8440.00	82580.00	-5072.00	91040.00	40
41	-7528.00	88710.00	-904.00	81030.00	-13710.00	80830.00	41
42	-2624.00	103400.00	13120.00	85700.00	-5856.00	93390.00	42
43	-5744.00	115500.00	8448.00	107500.00	-5864.00	105900.00	43
44	-9304.00	139500.00	6888.00	123100.00	-5072.00	125600.00	44
45	12540.00	77560.00	-7136.00	73230.00	14550.00	72980.00	45
46	-3060.00	10250.00	-7130.00	14020.00	2781.00	14130.00	46



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FLIGHT LEADS

CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 177  
TSGW 20800 TCG 9.7 AFT FLIGHT DATE 10/20/77

EVENT	91020SDY	91020MAX	91020MIN	14420SDY	14420MAX	14420MIN	EVENT
2	303.40	306.30	301.40	1.01	1.02	1.00	2
3	304.30	304.40	304.10	1.02	1.06	.97	3
4	304.00	304.30	303.80	1.05	1.07	.95	4
5	303.90	304.10	303.90	.99	1.02	.96	5
6	303.90	304.10	303.80	.97	1.02	.88	6
7	304.90	305.20	303.80	1.09	1.13	.96	7
8	304.10	304.80	303.10	.96	1.21	.89	8
9	304.00	304.30	303.10	.90	1.23	.86	9
10	303.90	304.40	303.80	1.10	1.14	.93	10
11	303.90	304.10	303.80	.96	1.10	.89	11
12	304.10	304.30	303.80	.98	1.06	.96	12
13	303.90	304.10	303.50	1.00	1.08	.87	13
14	304.00	304.30	303.90	1.07	1.10	1.00	14
15	320.50	322.80	319.70	1.01	1.03	.96	15
16	320.80	324.30	315.50	1.14	1.29	.93	16
17	312.60	323.60	301.70	1.33	1.42	.82	17
18	305.00	317.90	298.80	1.27	1.51	1.04	18
19	304.00	304.30	303.40	.95	1.10	.90	19
20	304.10	304.40	303.60	.98	1.12	.84	20
21	304.30	304.50	303.80	1.03	1.14	.84	21
22	303.90	304.40	303.60	.96	1.10	.90	22
23	303.90	304.60	303.40	1.04	1.22	.80	23
24	303.90	304.40	303.80	.97	1.08	.94	24
25	304.30	304.40	303.80	.98	1.18	.88	25
26	303.80	304.10	303.50	.93	1.05	.82	26
27	304.20	304.90	303.90	.92	1.23	.88	27
28	303.30	304.60	302.60	1.07	1.24	.93	28
29	304.30	305.20	303.50	1.08	1.20	1.00	29
30	303.40	304.60	302.90	1.12	1.26	1.01	30
31	304.40	305.20	303.00	1.15	1.34	.92	31
32	305.00	305.90	303.10	1.09	1.30	.86	32
33	304.40	305.30	303.10	1.15	1.26	1.02	33
34	305.70	306.10	303.50	1.33	1.43	.89	34
35	304.50	305.20	303.30	.93	1.41	.64	35
36	304.20	308.20	303.00	1.34	1.61	.88	36
37	304.30	304.50	303.90	.94	1.17	.90	37
38	304.30	304.40	303.60	1.05	1.10	.91	38
39	304.20	304.40	303.80	1.14	1.26	1.04	39
40	304.10	304.60	303.60	1.02	1.15	.88	40
41	304.10	304.30	303.90	.93	1.05	.89	41
42	304.20	304.50	303.80	.89	1.08	.83	42
43	304.30	304.80	304.00	1.05	1.23	.88	43
44	304.20	305.30	303.60	1.23	1.31	.93	44
45	303.50	305.60	302.60	1.04	1.15	.86	45
46	324.60	332.80	297.60	1.01	1.02	1.00	46

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## FLIGHT LOADS

## CH-46 FGB STRESS SURVEY

AIRCRAFT SLP1 FLIGHT 177

TGW 20800 TACG 9.7 AFT FLIGHT DATE 10/20/77

EVENT	34020SDY	34020MAX	34020MIN	34010SDY	34010MAX	34010MIN	EVENT
2	.12	.28	-.21	1.10	1.50	.53	2
3	.12	.44	-.87	-3.02	-2.80	-4.55	3
4	1.18	1.43	-.05	-5.60	-4.03	-5.78	4
5	.12	.77	-.37	-5.96	-5.34	-6.31	5
6	1.10	1.43	-.05	-7.40	-4.81	-7.80	6
7	-.05	3.88	-.37	.05	1.24	-2.62	7
8	-3.73	5.19	-28.87	-6.53	-.34	-10.43	8
9	-17.00	7.48	-30.02	-6.26	-2.80	-8.41	9
10	1.18	1.59	-.05	-3.50	-1.75	-4.90	10
11	.28	1.75	-.54	-5.91	-3.41	-7.01	11
12	-.78	.21	-1.19	-7.10	-6.04	-7.80	12
13	.61	1.43	-.21	-5.65	-3.41	-8.24	13
14	-.29	3.39	-1.03	-5.78	-3.50	-6.22	14
15	-1.44	-.54	-1.85	1.50	2.02	1.06	15
16	6.83	16.32	-29.20	1.28	5.01	-2.01	16
17	5.27	35.65	-22.97	2.86	8.69	-2.36	17
18	-27.31	2.41	-46.06	-8.24	-1.04	-23.41	18
19	.03	1.26	-1.19	-3.15	-2.10	-6.04	19
20	.77	1.26	-1.52	-4.33	-2.62	-8.76	20
21	.20	1.26	-.21	-4.16	-3.32	-8.24	21
22	1.18	2.24	-.21	-8.85	-6.48	-9.38	22
23	1.92	2.90	-.05	-8.76	-1.66	-10.43	23
24	2.00	2.24	.12	-4.82	-4.55	-5.43	24
25	-.13	.94	-1.69	-4.68	-4.03	-7.27	25
26	1.26	3.23	-.37	-8.54	-7.62	-10.52	26
27	-.05	.77	-.37	-10.38	-5.96	-11.57	27
28	-19.29	2.90	-49.34	-6.57	1.15	-7.45	28
29	9.37	49.57	-8.73	-4.47	-1.31	-5.08	29
30	-18.88	5.85	-59.82	-2.49	1.32	-8.32	30
31	36.39	60.05	-2.83	-2.97	.53	-4.20	31
32	26.23	50.06	-4.63	-1.79	6.23	-6.57	32
33	-25.35	7.65	-55.39	1.15	6.23	-4.64	33
34	3.06	34.66	-11.02	-3.41	-.61	-6.92	34
35	.12	1.10	-.70	-6.66	-2.97	-9.20	35
36	.53	.94	-.05	-4.68	-3.76	-5.78	36
37	-.05	.77	-.87	-4.38	-2.18	-4.73	37
38	.44	1.10	-.87	-4.95	-4.55	-5.87	38
39	-.37	2.08	-1.19	-.91	-.61	-8.76	39
40	.20	1.10	-.70	-2.45	-1.40	-4.03	40
41	1.18	1.75	.61	-6.09	-5.08	-7.53	41
42	.61	2.57	.28	-8.15	-7.27	-10.60	42
43	2.82	3.06	.94	-8.81	-6.22	-10.95	43
44	-.78	1.10	-4.14	-3.81	-.69	-4.64	44
45	.12	2.74	-2.83	1.81	6.41	-1.31	45
46	.20	.44	-.05	.67	.97	.45	46